

カラービデオプリンター

COLOR VIDEO PRINTER

UP-2800

UP-2900MD

UP-2950MD

UP-2300

UP-2800P

UP-2850P

UP-2300P

SERVICE MANUAL

Vol. 2 (1st Edition)

このマニュアルについて

本書の目的

本書はサービスマニュアルVol.2です。
本書では、半導体、補修部品表、ブロックダイアグラム、マウント図、回路図を記載しています。

関連マニュアル

この「サービスマニュアルVol.2」の他に、下記のマニュアルが用意されています。

- **サービスマニュアルVol.1**

部品番号：9-974-799-11 (J向)

本機の取扱説明、サービスインフォメーション、調整要項、回路動作説明、メカ動作説明、トラブルシューティング等を記載しています。

Purpose of this manual

This manual is the Service Manual Vol.2.

This manual contains the semiconductor pin assignment, spare parts, block diagram, circuit diagrams and mounted circuit boards.

Related manuals

In addition to this Service Manual Vol.2, the following manual is provided.

- **Service Manual Vol.1**

Part No. 9-977-296-11 (for UC, CE)

Contains the operating instructions, service information, adjustments, circuit description, mechanical description and trouble shooting.

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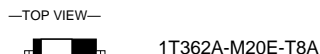
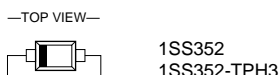
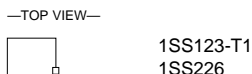
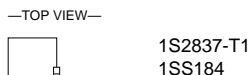
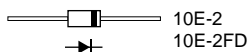
SEMICONDUCTOR PIN ASSIGNMENTS

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

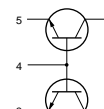
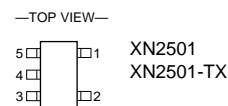
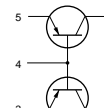
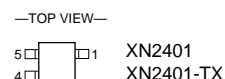
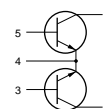
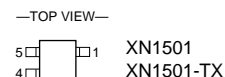
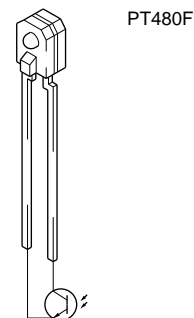
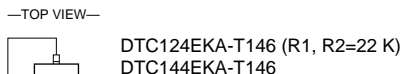
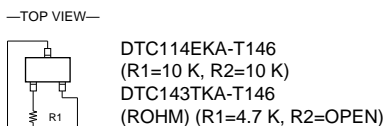
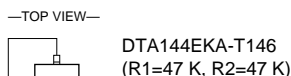
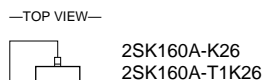
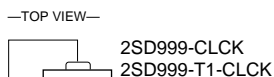
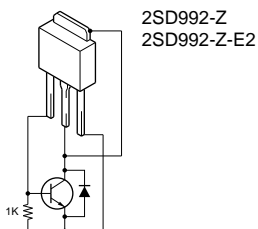
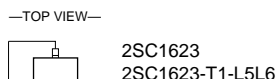
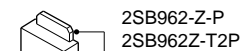
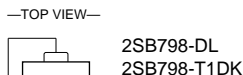
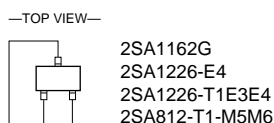
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DIODE



TRANSISTOR



LED

—TOP VIEW—



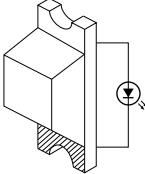
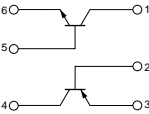
XN4501
XN4501-TW



—TOP VIEW—



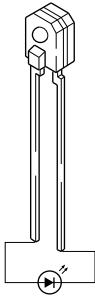
XN4601
XN4601-TW



AA1101W ; ORANGE
PG1101W-TR ; GREEN



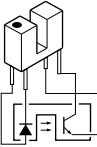
GL1EG111 ; YELLOWISH GREEN



GL480 ; INFRARED



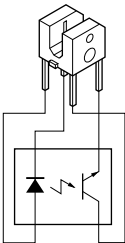
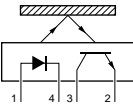
OTHERS



GP1S54
GP1S58V



GP2S40K



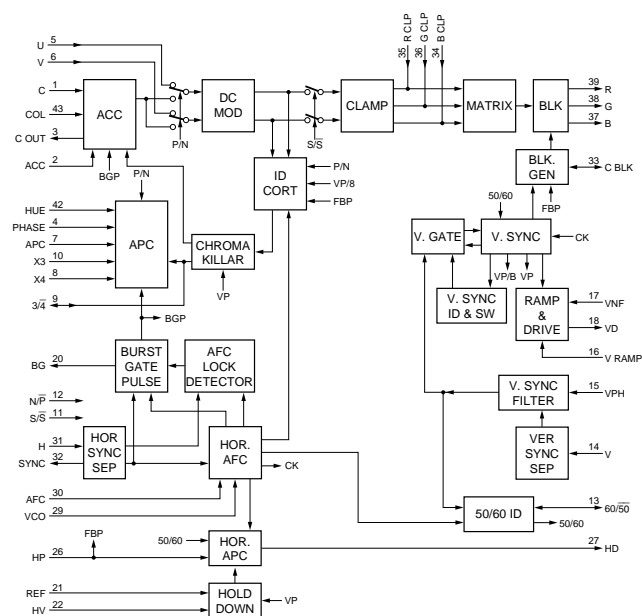
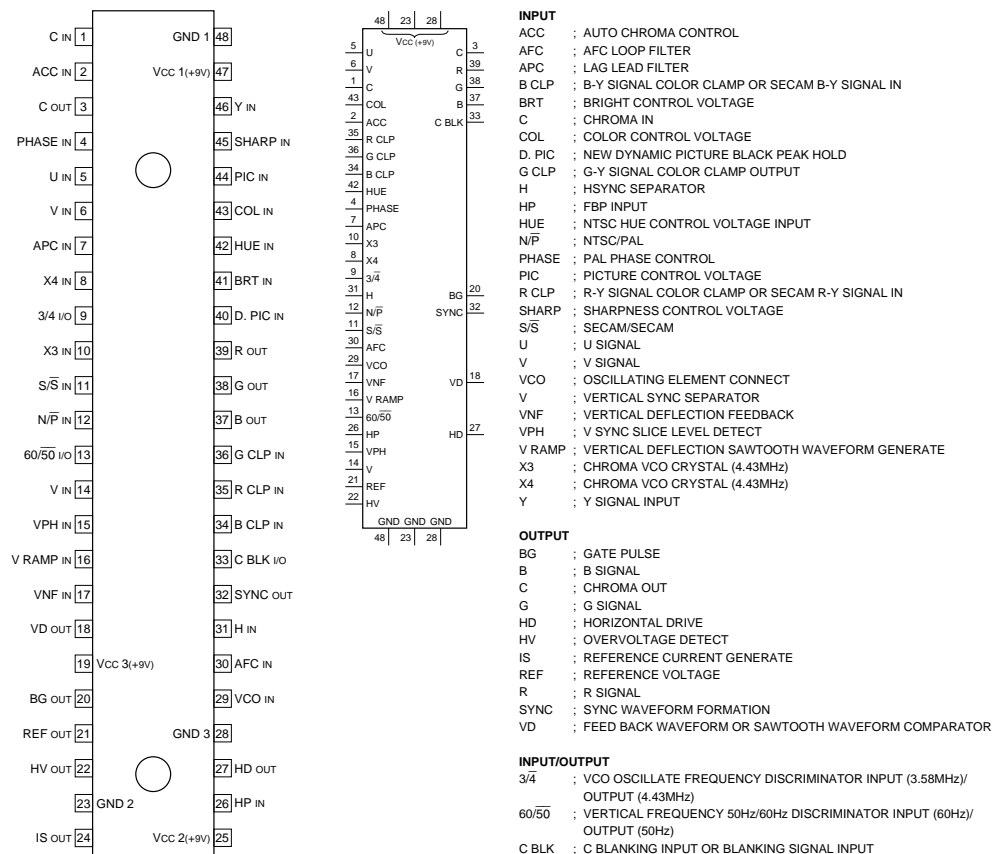
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IC

CXA1213BS (SONY)

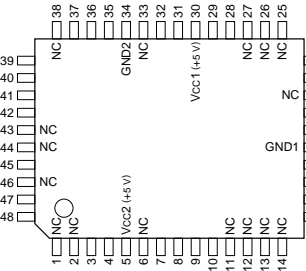
PAL/NTSC COLOR DECODER

—TOP VIEW—



CXA1437Q (SONY)

PULSE GENERATOR
—TOP VIEW—



(VCC = +5 V)

| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|--------|---------|-----|---------------|---------|-----|---------------|---------|-----|--------------|
| 1 | — | NC | 13 | — | NC | 25 | — | NC | 37 | I | SYNC SEP |
| 2 | — | NC | 14 | — | NC | 26 | — | NC | 38 | — | NC |
| 3 | — | HD TC | 15 | O | VD | 27 | — | NC | 39 | — | SYNC SEP TC2 |
| 4 | O | HD | 16 | O | ID | 28 | O | SW | 40 | O | C. SYNC |
| 5 | — | Vcc2 | 17 | — | ID S/H | 29 | — | AGC REF | 41 | I | PB/REC |
| 6 | — | NC | 18 | I | ID | 30 | — | Vcc1 | 42 | I | fsc |
| 7 | — | I REF | 19 | — | GND1 | 31 | I | REF Y | 43 | — | NC |
| 8 | — | VD TC | 20 | O | AGC OUT | 32 | — | PEAK AGC HOLD | 44 | — | NC |
| 9 | O | BFP | 21 | I | AGC DET | 33 | — | NC | 45 | I | NTSC/PAL |
| 10 | — | BFP TC | 22 | — | NC | 34 | — | GND2 | 46 | — | NC |
| 11 | — | NC | 23 | — | SYNC AGC HOLD | 35 | I | PB Y | 47 | O | L. ALT |
| 12 | — | NC | 24 | I | AGC | 36 | — | SYNC SEP TC1 | 48 | O | BLK |

INPUT

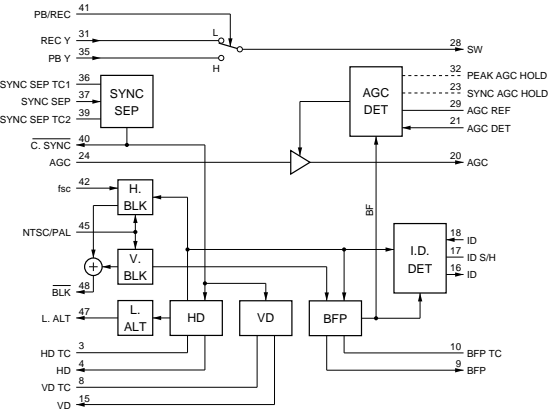
AGC DET ; AGC DET
AGC ; AGC
fsc ; H BLK fsc (Y: NONSYNC)
ID ; ID DET (L: R-Y, H: B-Y)
NTSC/PAL ; BLK NTSC/PAL SWITCH (L: NTSC, H: PAL)
PB/REC ; PB/REC SWITCH (L: PB, H: REC)
PB Y ; PB Y SWITCH
REC Y ; REC Y SWITCH
SYNC SEP ; SYNC SEPARATOR

OUTPUT

AGC ; AGC
BFP ; BFP (BLANKING SIGNAL IN V BLK)
BLK ; COMPOSITE BLANKING SIGNAL
C. SYNC ; C. SYNC
HD ; HD PULSE
ID ; ID DETECT (PLAYBACK COLOR DIFFERENCE SIGNAL) (L: R-Y, H: B-Y)
L. ALT ; HD 1/2 COUNT DOWN
SW ; SWITCH
VD ; VD PULSE

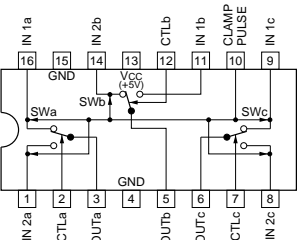
OTHER

AGC REF ; AGC LEVEL ADJUSTMENT
BFP TC ; BFP TIME CONSTANT
HD TC ; HALF H KILLER MONO-MULTI TIME CONSTANT
ID S/H ; ID DET SAMPLE HOLD CAPACITOR
I REF ; REFERENCE CURRENT (VD, HD, BFP TIME CONSTANT)
PEAK AGC HOLD ; PEAK AGC TIME CONSTANT
SYNC AGC HOLD ; SYNC AGC TIME CONSTANT
SYNC SEP TC1 ; SYNC TIP POSITION DETECT
SYNC SEP TC2 ; FEED BACK CLAMP TIME CONSTANT
VD TC ; VD DET TIME CONSTANT



BA7606F (ROHM)
BA7606F-T2

3-ININPUT VIDEO SWITCH FOR VTR
—TOP VIEW—

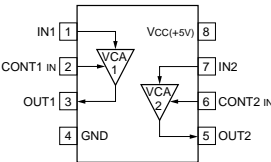


| CLT | OUT |
|-----|------|
| 0 | IN 2 |
| 1 | IN 1 |

0 ; LOW LEVEL
1 ; HIGH LEVEL

CXA1211M (SONY)
CXA1211M-T4

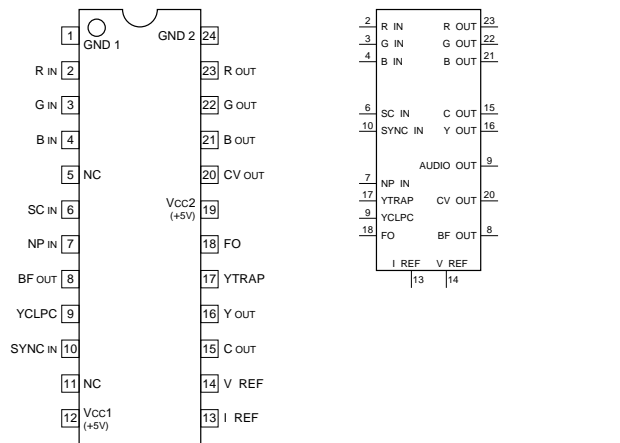
ELECTRONIC VOLUME
—TOP VIEW—



CXA1645M (SONY) FLAT PACKAGE CXA1645M-T6

RGB COMPOSITE ENCODER

—TOP VIEW—



INPUT

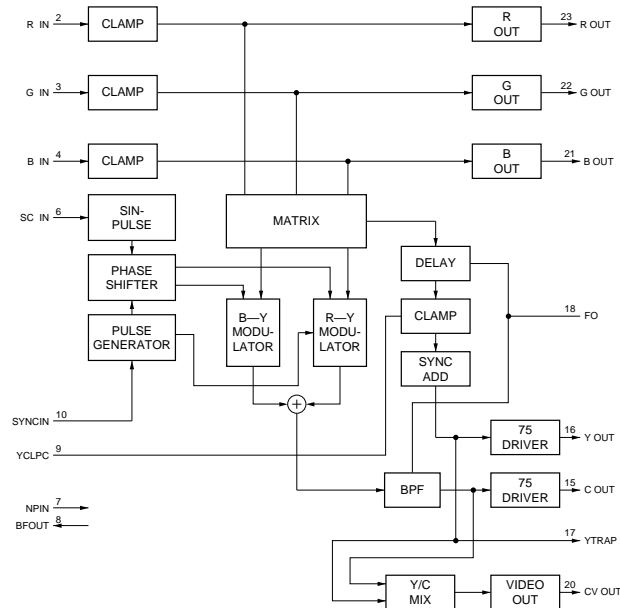
B IN : ANALOG B
G IN : ANALOG G
NP IN : NTSC/PAL MODE SELECT
R IN : ANALOG R
SC IN : SUB-CARRIER
SYNC IN : COMPOSITE SYNC SIGNAL

OTHER

FO : fo ADJUST FOR INNER FILTER
IREF : REFERENCE CURRENT
VREF : REFERENCE VOLTAGE
YCLPC : Y SIGNAL CLAMP CAPACITOR
YTRAP : Y SIGNAL CROSS-COLOR TRAP

OUTPUT

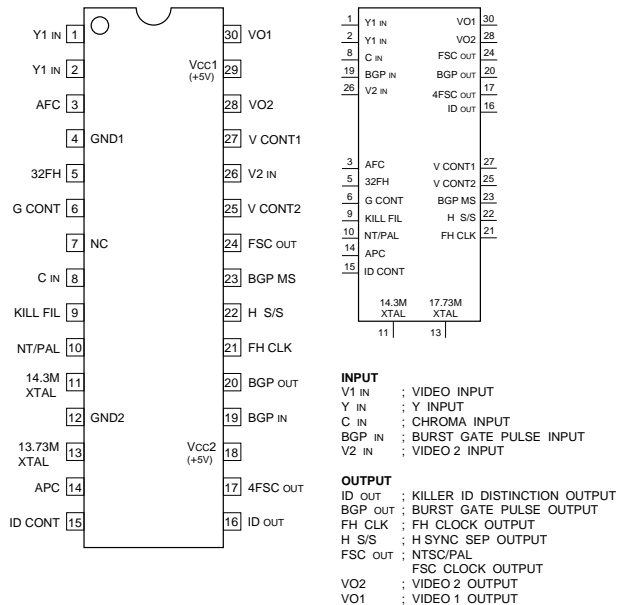
B OUT : ANALOG B
BF OUT : BF PULSE FOR MONITOR
C OUT : CHROMA SIGNAL
CV OUT : COMPOSITE VIDEO
G OUT : ANALOG G
R OUT : ANALOG R
Y OUT : Y SIGNAL



CXA1686M (SONY) FLAT PACKAGE CXA1686M-T6

4FSC CLOCK GENERATOR

—TOP VIEW—

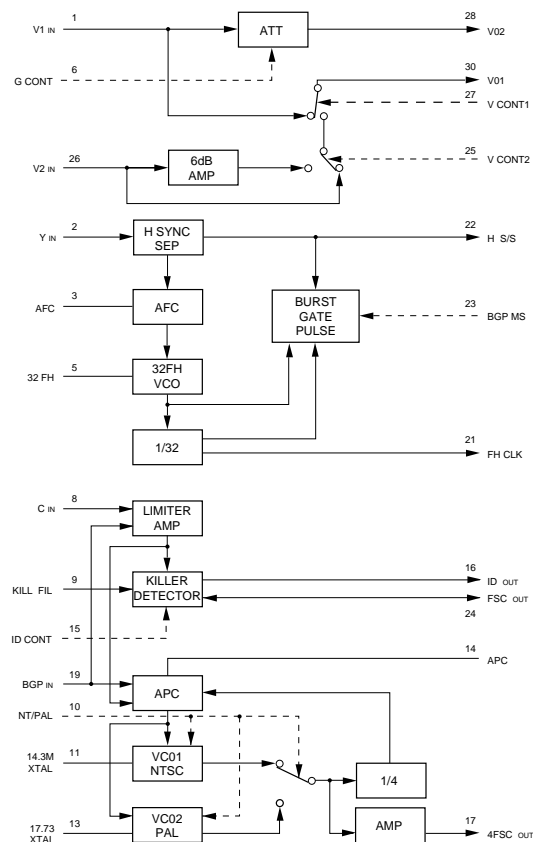


INPUT

V1 IN : VIDEO INPUT
Y IN : Y INPUT
C IN : CHROMA INPUT
BGP IN : BURST GATE PULSE INPUT
V2 IN : VIDEO 2 INPUT

OUTPUT

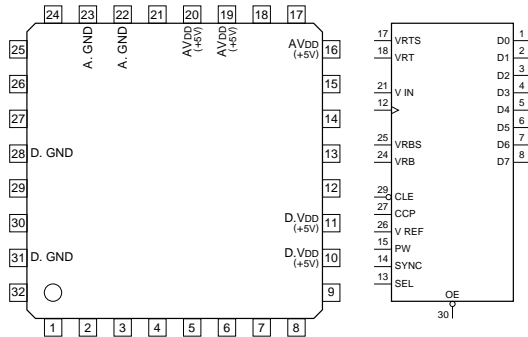
ID OUT : KILLER ID DISTINCTION OUTPUT
BGP OUT : BURST GATE PULSE OUTPUT
FH CLK : FH CLOCK OUTPUT
H S/S : H SYNC SEP OUTPUT
FSC OUT : NTSC/PAL
FSC OUT : FSC CLOCK OUTPUT
VO2 : VIDEO 2 OUTPUT
VO1 : VIDEO 1 OUTPUT



CXD1176Q (SONY) CXD1176Q-T4

C-MOS 8-BIT 20MSPS VIDEO A / D CONVERTER

—TOP VIEW—



(A V_{DD}, D V_{DD} = +5V)

| PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL |
|---------|-----|-------------------|---------|-----|-------------------|
| 1 | O | D0(LSB) | 17 | I | VRTS |
| 2 | O | D1 | 18 | I | VRT |
| 3 | O | D2 | 19 | — | A.V _{DD} |
| 4 | O | D3 | 20 | — | A.V _{DD} |
| 5 | O | D4 | 21 | I | V IN |
| 6 | O | D5 | 22 | — | A.GND |
| 7 | O | D6 | 23 | — | A.GND |
| 8 | O | D7(MSB) | 24 | I | VRB |
| 9 | — | NC | 25 | I | VRBS |
| 10 | — | D.V _{DD} | 26 | I | VREF |
| 11 | — | D.V _{DD} | 27 | I | CCP |
| 12 | I | CLK | 28 | — | D.GND |
| 13 | I | SEL | 29 | I | CLE |
| 14 | I | SYNC | 30 | I | OE |
| 15 | I | PW | 31 | — | D.GND |
| 16 | — | A.V _{DD} | 32 | — | NC |

INPUT

CCP : CLAMP CONTROL VOLTAGE FOR INTEGRATOR

CLE : CLAMP ENABLE

CLK : CLOCK

CLP : CLAMP PULSE

OE : OUTPUT ENABLE

PW : PULSE WIDTH FOR MONO MULTI

SEL : TRIGGER SELECT

SYNC : TRIGGER PULSE FOR MONO MULTI VIBRATOR

V IN : ANALOG

VRB : REFERENCE VOLTAGE (BOTTOM)

VRBS : SELF REFERENCE VOLTAGE SHORT (+0.5 V/BOTTOM)

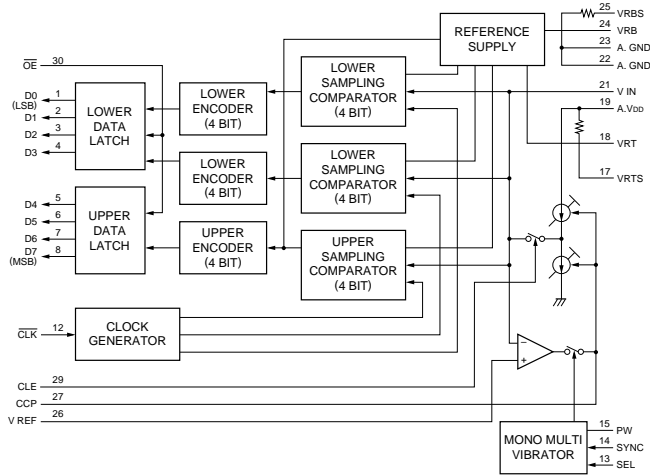
VREF : VOLTAGE REFERENCE FOR CLAMP

VRT : REFERENCE VOLTAGE (TOP)

VRTS : SELF REFERENCE VOLTAGE SHORT (+2.6 V/TOP)

OUTPUT

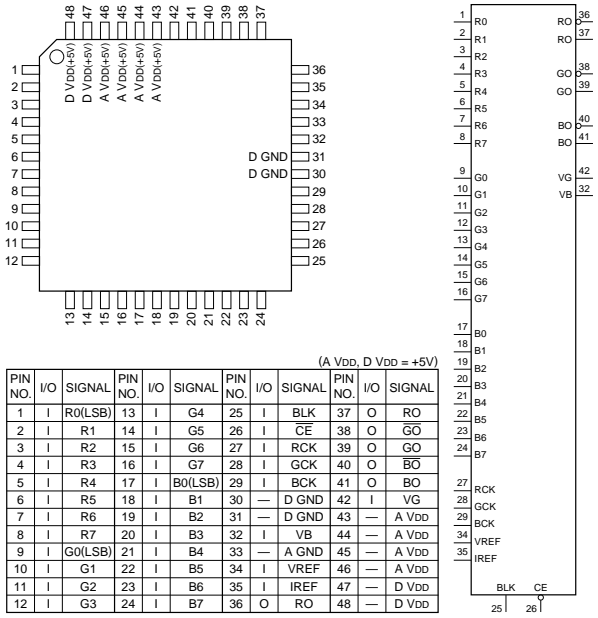
D0 - D7 : DATA



CXD1178Q (SONY) CXD1178Q-T6

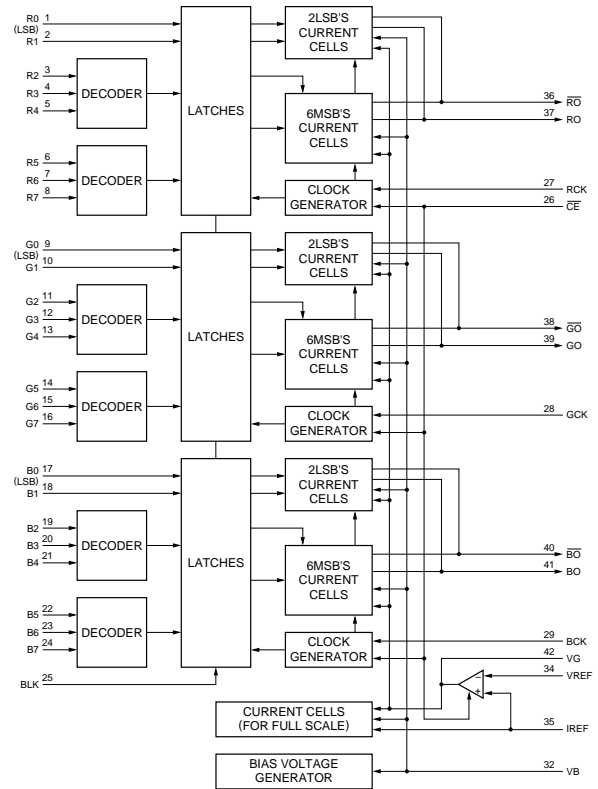
C-MOS 3CH 8-BIT 40MHz D / A CONVERTER

—TOP VIEW—

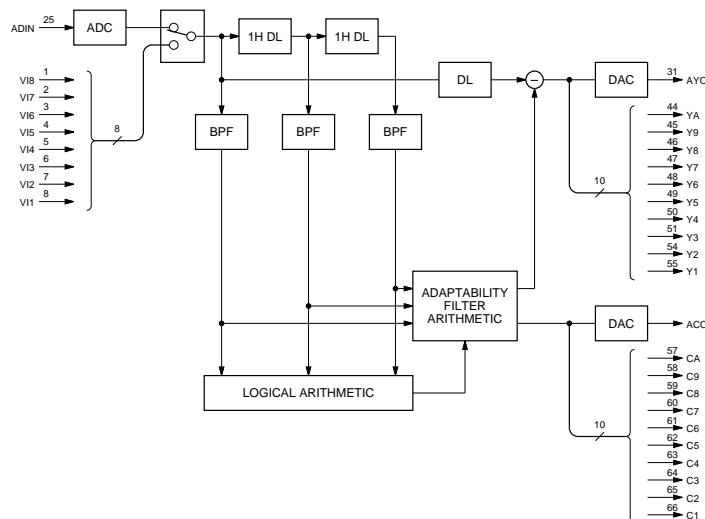
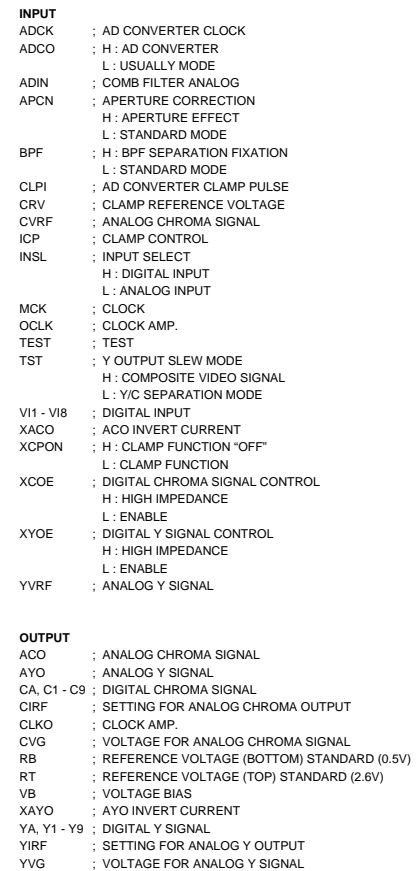
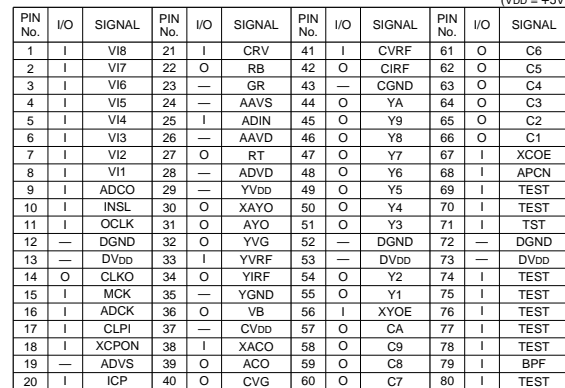


(A V_{DD}, D V_{DD} = +5V)

| PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL |
|---------|-----|---------|---------|-----|---------|---------|-----|--------|---------|-----|-------------------|
| 1 | I | R0(LSB) | 13 | I | G4 | 25 | I | BLK | 37 | O | RO |
| 2 | I | R1 | 14 | I | G5 | 26 | I | CE | 38 | O | GO |
| 3 | I | R2 | 15 | I | G6 | 27 | I | RCK | 39 | O | GO |
| 4 | I | R3 | 16 | I | G7 | 28 | I | GCK | 40 | O | BO |
| 5 | I | R4 | 17 | I | B0(LSB) | 29 | I | BCK | 41 | O | BO |
| 6 | I | R5 | 18 | I | B1 | 30 | — | D.GND | 42 | I | VG |
| 7 | I | R6 | 19 | I | B2 | 31 | — | D.GND | 43 | — | A.V _{DD} |
| 8 | I | R7 | 20 | I | B3 | 32 | I | VB | 44 | — | A.V _{DD} |
| 9 | I | G0(LSB) | 21 | I | B4 | 33 | — | A.GND | 45 | — | A.V _{DD} |
| 10 | I | G1 | 22 | I | B5 | 34 | I | VREF | 46 | — | A.V _{DD} |
| 11 | I | G2 | 23 | I | B6 | 35 | I | IREF | 47 | — | D.V _{DD} |
| 12 | I | G3 | 24 | I | B7 | 36 | O | RO | 48 | — | D.V _{DD} |



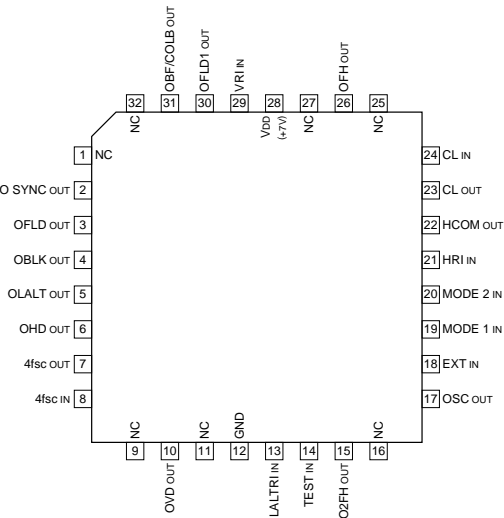
—TOP VIEW—



| | |
|------|------------------------------|
| AAVD | ; AD CONVERTER ANALOG POWER |
| AAVS | ; AD CONVERTER ANALOG GND |
| ADVS | ; AD CONVERTER DIGITAL GND |
| ADVD | ; AD CONVERTER DIGITAL POWER |
| GR | ; GARD RING |
| CVSS | ; C/DA CONVERTER GND |
| CVDD | ; C/DA CONVERTER POWER |
| YVDD | ; Y/DA CONVERTER POWER |
| YVSS | ; Y/DA CONVERTER ANALOG GND |

CXD1217Q (SONY)
CXD1217Q-T4

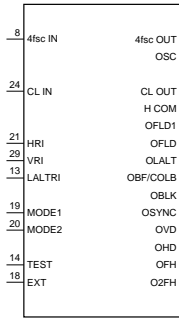
C-MOS SYNC GENERATOR
—TOP VIEW—



| SYSTEM | 4fsc | CLOCK |
|--------|--------------|-------|
| NTSC | 910fh | 910fh |
| PAL | 1135fh + 2fv | 908fh |
| PALM | 909fh | 910fh |
| SECAM | — | 908fh |

| INPUT | | SYSTEM |
|-------|-------|--------|
| MODE1 | MODE2 | |
| 0 | 0 | NTSC |
| 0 | 1 | SECAM |
| 1 | 0 | PALM |
| 1 | 1 | PAL |

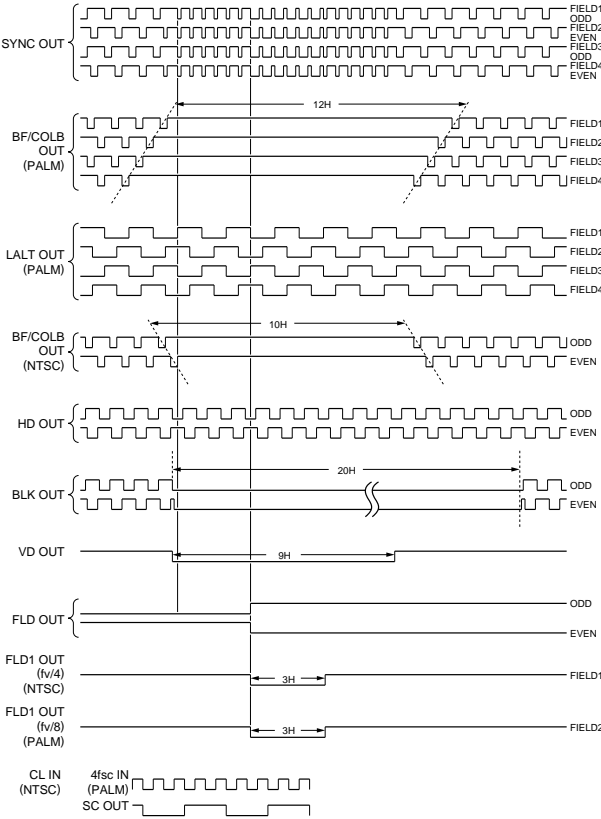
0 : LOW LEVEL
1 : HIGH LEVEL



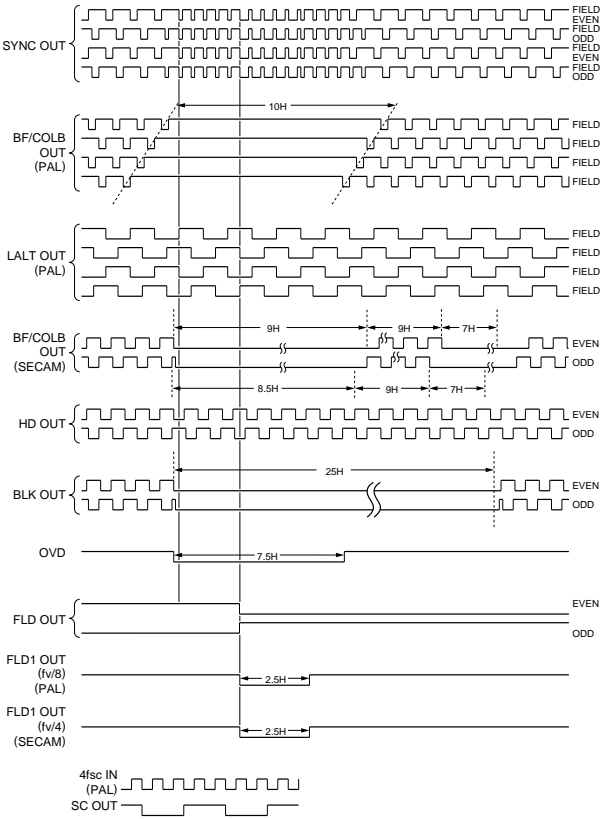
INPUT
4fsc IN : 4fsc
CL IN : CLOCK
EXT : SYNC MODE SELECT
(L : INTERNAL/H : EXTERNAL)
HRI : HORIZONTAL RESET
LALTRI : LINE ALTERNATE RESET
MODE1, 2 : SYSTEM SELECT
VRI : VERTICAL RESET

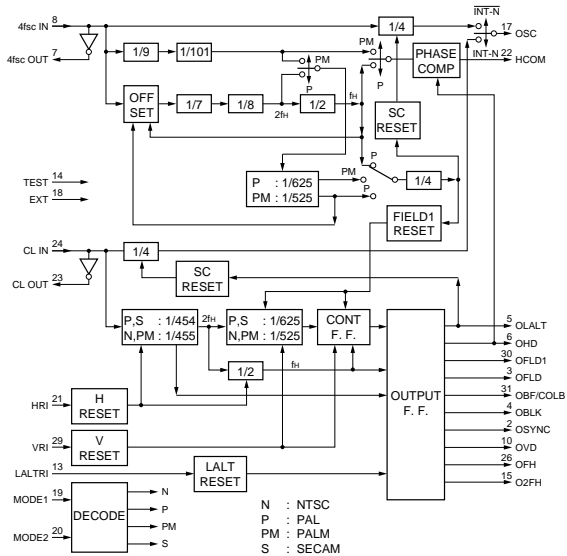
OUTPUT
4fsc OUT : 4fsc
CL OUT : CLOCK
HCOM : PHASE COMPARATOR
O2FH : 2fh
OBF/COLB : BURST FLAG/COLOR BLANKING
OBLK : COMPOSITE BLANKING
OFH : fh
OFLD : FIELD PULSE
OFLD1 : FIELD1
OHD : HORIZONTAL DRIVE
OLALT : LINE ALTERNATE
OSC : SUBCARRIER
OSYNC : COMPOSITE SYNC
OVD : VERTICAL DRIVE

(NTSC, PALM)



(PAL, SECAM)

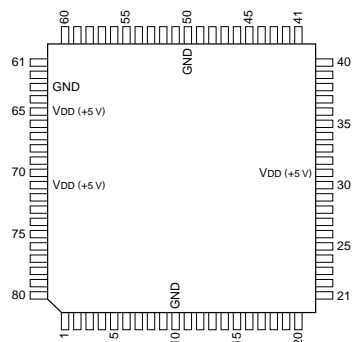




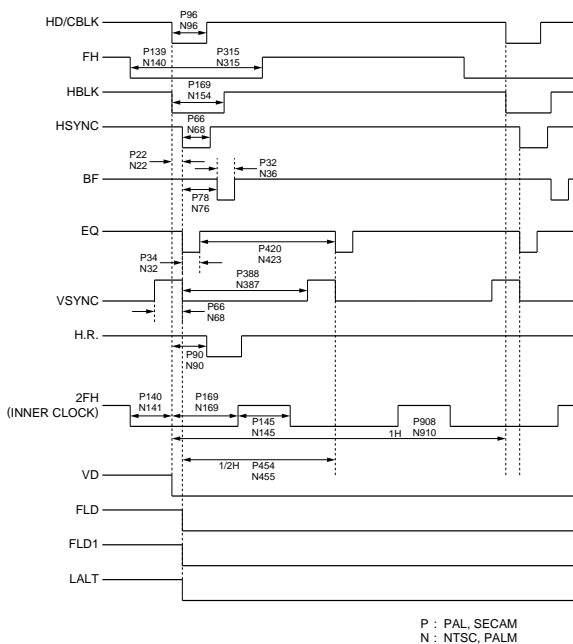
CXD8636Q (SONY)

C-MOS GATE ARRAY

—TOP VIEW—

(V_{DD} = +5 V)

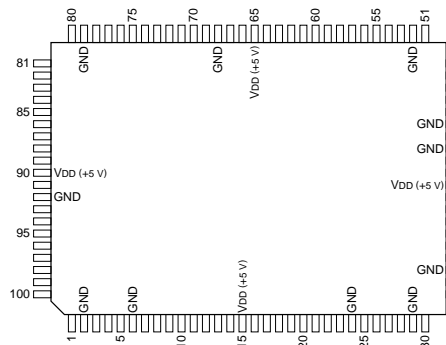
| PIN No. | I/O | SYMBOL | PIN No. | I/O | SYMBOL | PIN No. | I/O | SYMBOL | PIN No. | I/O | SYMBOL | PIN No. | I/O | SYMBOL |
|---------|-----|-------------|---------|-----|-----------------|---------|-----|--------------|---------|-----|--------------|---------|-----|-----------------|
| 1 | I | TSTSEL | 17 | O | TSTCOMP5 | 33 | O | TDATA9 | 49 | I | DCLK | 65 | — | V _{DD} |
| 2 | I | TSTLOAD | 18 | O | TSTCOMP6 | 34 | O | TDATA10 | 50 | — | GND | 66 | I | ICSEL2 |
| 3 | O | NHEADACTIVE | 19 | O | TSTCOMP7 | 35 | O | TDATA11 | 51 | I | NDMAON | 67 | I | ICSEL1 |
| 4 | O | PRINTPULSE | 20 | O | TDATA8 | 36 | O | TDATA12 | 52 | O | NOMAREQ | 68 | I | ICSEL0 |
| 5 | I | PORTENABLE0 | 21 | O | HDDATA1 | 37 | O | TDATA13 | 53 | O | TDATA14 | 69 | O | NCLATCH |
| 6 | I | PORTENABLE1 | 22 | O | HDDATA2 | 38 | I | NRESET | 54 | O | TDATA15 | 70 | O | NUMBER0 |
| 7 | I | PORTENABLE2 | 23 | O | HDDATA3 | 39 | I | NHEADACTIVEF | 55 | I | TADD2 | 71 | — | V _{DD} |
| 8 | I | PRINTTYPE0 | 24 | O | HDDATA4 | 40 | I | PRINTPULSEF | 56 | I | TADD3 | 72 | O | NUMBER1 |
| 9 | I | PRINTTYPE1 | 25 | O | HDDATA5 | 41 | I | DATA7 | 57 | I | PRINTPULSEI | 73 | O | NUMBER2 |
| 10 | — | GND | 26 | O | HDDATA6 | 42 | I | DATA6 | 58 | I | NHEADACTIVEI | 74 | O | NUMBER3 |
| 11 | I | TESTSEL | 27 | O | HDDATA7 | 43 | I | DATA5 | 59 | I | TADD4 | 75 | O | NUMBER4 |
| 12 | O | TSTCOMP0 | 28 | O | HDDATA8 | 44 | I | DATA4 | 60 | I | TADD5 | 76 | O | NUMBER5 |
| 13 | O | TSTCOMP1 | 29 | O | NHDLATCH | 45 | I | DATA3 | 61 | I | TADD6 | 77 | O | NUMBER6 |
| 14 | O | TSTCOMP2 | 30 | O | HDCLK | 46 | I | DATA2 | 62 | I | CLK1S4 | 78 | O | NUMBER7 |
| 15 | O | TSTCOMP3 | 31 | — | V _{DD} | 47 | I | DATA1 | 63 | — | GND | 79 | O | NUMBER8 |
| 16 | O | TSTCOMP4 | 32 | O | NHDSTB | 48 | I | DATA0 | 64 | I | CLK | 80 | O | NUMBER9 |



CXD8653Q (SONY)

C-MOS PICTURE QUALITY CONTROL

—TOP VIEW—

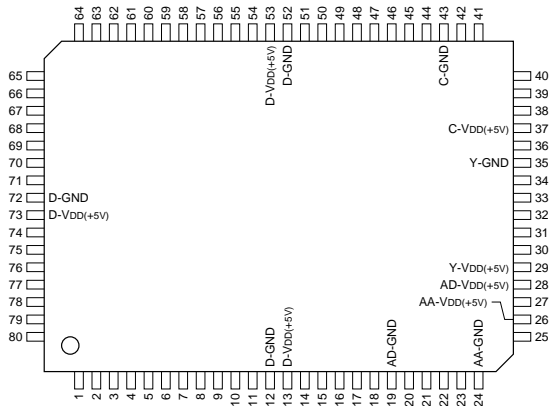
(V_{DD} = +5 V)

| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|-----------------|---------|-----|-----------------|---------|-----|--------|---------|-----|-----------------|---------|-----|-----------------|
| 1 | I | NRES | 21 | I/O | DB5 | 41 | O | PD1 | 61 | O | STS8 | 81 | I | FD0 |
| 2 | — | GND | 22 | I/O | DB6 | 42 | O | PD0 | 62 | O | STS9 | 82 | I | FD1 |
| 3 | I | NCS | 23 | I/O | DB7 | 43 | — | GND | 63 | O | STS10 | 83 | I | FD2 |
| 4 | I | NRD | 24 | — | GND | 44 | O | PDCK | 64 | O | STS11 | 84 | I | FD3 |
| 5 | I | NWR | 25 | I | NHAIN | 45 | — | GND | 65 | — | V _{DD} | 85 | I | FD4 |
| 6 | — | GND | 26 | I | PPIN | 46 | O | PDACT | 66 | O | XO | 86 | I | FD5 |
| 7 | I | ADB0 | 27 | O | STS0 | 47 | I | PDREQ | 67 | I | XI | 87 | I | FD6 |
| 8 | I | ADB1 | 28 | O | STS1 | 48 | I | TIN1 | 68 | — | GND | 88 | I | FD7 |
| 9 | I | ADB2 | 29 | — | GND | 49 | I | TIN2 | 69 | O | STS12 | 89 | I | TIN9 |
| 10 | I | ADB3 | 30 | I | TIN0 | 50 | I | TIN3 | 70 | O | STS13 | 90 | — | V _{DD} |
| 11 | I | ADB4 | 31 | O | PPOUT | 51 | I | TIN4 | 71 | O | STS14 | 91 | I | FDCK |
| 12 | I | ADB5 | 32 | O | NHAOUT | 52 | — | GND | 72 | O | STS15 | 92 | — | GND |
| 13 | I | ADB6 | 33 | — | GND | 53 | I | TIN5 | 73 | O | STS16 | 93 | O | FDREQ |
| 14 | I | ADB7 | 34 | O | PD7 | 54 | I | TIN6 | 74 | O | STS17 | 94 | I | TIN10 |
| 15 | — | V _{DD} | 35 | O | PD6 | 55 | O | STS2 | 75 | O | STS18 | 95 | I | TIN11 |
| 16 | I/O | DB0 | 36 | O | PD5 | 56 | O | STS3 | 76 | I | HNUM0 | 96 | I | TIN12 |
| 17 | I/O | DB1 | 37 | O | PD4 | 57 | O | STS4 | 77 | I | HNUM1 | 97 | I | TIN13 |
| 18 | I/O | DB2 | 38 | O | PD3 | 58 | O | STS5 | 78 | I | TIN7 | 98 | I | NTEST |
| 19 | I/O | DB3 | 39 | O | PD2 | 59 | O | STS6 | 79 | — | GND | 99 | I | NPREHT |
| 20 | I/O | DB4 | 40 | — | V _{DD} | 60 | O | STS7 | 80 | I | TIN8 | 100 | I | TIN14 |

CXD2024AQ (SONY)

C-MOS DIGITAL COMB FILTER (NTSC/PAL)

—TOP VIEW—



| (VDD = +5V) | | | | | | | | | | | |
|-------------|-----|--------|---------|-----|--------|---------|-----|--------|---------|-----|--------|
| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
| 1 | I | VI8 | 21 | I | CRV | 41 | I | CVRF | 61 | O | C6 |
| 2 | I | VI7 | 22 | O | RB | 42 | O | CIRF | 62 | O | C5 |
| 3 | I | VI6 | 23 | — | GR | 43 | — | C-GND | 63 | O | C4 |
| 4 | I | VI5 | 24 | — | AA-GND | 44 | O | YA | 64 | O | C3 |
| 5 | I | VI4 | 25 | I | ADIN | 45 | O | Y9 | 65 | O | C2 |
| 6 | I | VI3 | 26 | — | AA-VDD | 46 | O | Y8 | 66 | O | C1 |
| 7 | I | VI2 | 27 | O | RT | 47 | O | Y7 | 67 | I | XCOE |
| 8 | I | VI1 | 28 | — | AD-VDD | 48 | O | Y6 | 68 | I | APCN |
| 9 | I | ADC0 | 29 | — | Y-VDD | 49 | O | Y5 | 69 | I | RATI |
| 10 | I | INSL | 30 | I | XAYO | 50 | O | Y4 | 70 | I | NTPL |
| 11 | I | OCLK | 31 | O | AYO | 51 | O | Y3 | 71 | I | TST |
| 12 | — | D-GND | 32 | O | YVG | 52 | — | D-GND | 72 | — | D-GND |
| 13 | — | D-VDD | 33 | I | YVRF | 53 | — | D-VDD | 73 | — | D-VDD |
| 14 | O | CLK0 | 34 | O | YIRF | 54 | O | Y2 | 74 | I | PNR |
| 15 | I | MCK | 35 | — | Y-GND | 55 | O | Y1 | 75 | I | TEST |
| 16 | I | ADCK | 36 | O | VB | 56 | I | XYOE | 76 | I | TEST |
| 17 | I | CLPI | 37 | — | C-VDD | 57 | O | CA | 77 | I | TEST |
| 18 | I | XCPON | 38 | I | XACO | 58 | O | C9 | 78 | I | TEST |
| 19 | — | AD-GND | 39 | O | ACO | 59 | O | C8 | 79 | I | BPF |
| 20 | I | ICP | 40 | O | CVG | 60 | O | C7 | 80 | I | TEST |

INPUT

- ADCK : CLOCK FOR A/D CONVERTER
- ADCO : A/D CONVERTER OUTPUT SELECT
(H : DIGITAL OUTPUT MODE, L : STANDARD MODE)
- ADIN : COMB FILTER ANALOG DATA
- APCN : APERTURE COMPENSATION
(H : FREQUENCY RESPONSE DEGRADATION COMPENSATE BY APERTURE EFFECT, L : STANDARD)
- BPF : Y/C SEPARATE PROCESS MODE SETTING
(H : BPF SEPARATE MODE, L : ADAPTABILITY PROCESS MODE)
- CLPI : CLAMP PULSE FOR A/D CONVERTER
- CRV : CLAMP REFERENCE VOLTAGE
- CVRF : FULL SCALE VALUE SETTING OF ANALOG CHROMA SIGNAL
- ICP : VOLTAGE INTERGRATION FOR CLAMP CONTROL
- INSL : INPUT DATA SELECT OF COMB FILTER (H : DIGITAL INPUT, L : ANALOG INPUT)
- MCK : MASTER CLOCK
- NTPL : NTSC/PAL MODE SETTING (H : PAL, L : NTSC)
- OCLK : CLOCK AMPLIFIER
- PNR : DOT INTERFERENCE (PAL H : MINIMUM, L : BEFORE IMPROVEMENT
NTSC : L FIXED)
- RATI : RATIO SETTING (H : PAL (WHEN THE PNR IS ON, SET TO L FORCED), L : NTSC)
- TEST : TEST (NORMAL : L FIXED)
- TST : Y OUTPUT THROUGH MODE
(H : COMPOSITE VIDEO SIGNAL (TO AYO, YA-Y1) AND Y/C SEPARATED CHROMA SIGNAL (TO ACO, CA-C1), L : Y-C SEPARATION MODE)
- VI1 - VI8 : DIGITAL DATA
- XACO : ANALOG CHROMA SIGNAL REVERSE CURRENT (CONNECTED TO C-GND)
- XAYO : ANALOG Y SIGNAL REVERSE CURRENT (CONNECTED TO Y-GND)
- XCOE : DIGITAL CHROMA SIGNAL OUTPUT CONTROL
(H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
- XCPON : CLAMP SETTING FOR A/D CONVERTER
(H : A/D CONVERTER CAPABILITY, L : CLAMP CAPABILITY)
- XYOE : DIGITAL Y SIGNAL OUTPUT CONTROL
(H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
- YVRF : FULL SCALE VALUE SETTING OF ANALOG Y SIGNAL

OUTPUT

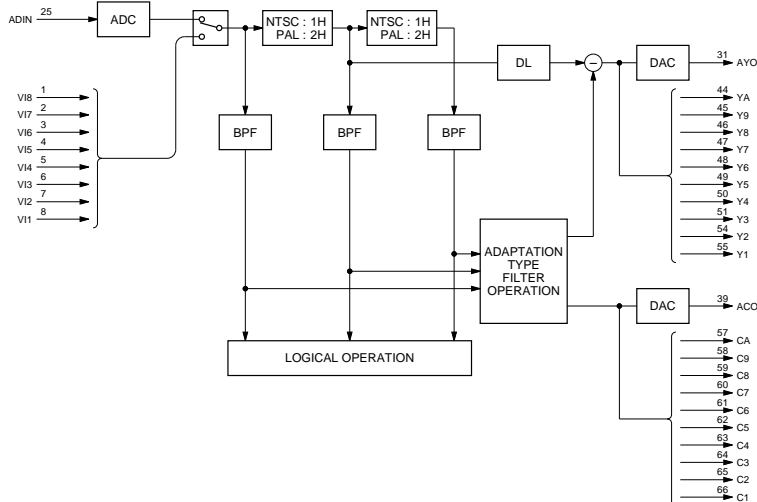
- ACO : ANALOG CHROMA SIGNAL
- AYO : ANALOG Y SIGNAL
- C1 - C9 : DIGITAL CHROMA SIGNAL
- CA : DIGITAL CHROMA SIGNAL
- CIRF : EXTERNAL RESISTOR CONNECTION
- CLKO : CLOCK AMPLIFIER
- CVG : EXTERNAL CAPACITOR CONNECTION
- RB : STANDARD VALUE (+0.5V) OF REFERENCE VOLTAGE (BOTTOM)
- RT : STANDARD VALUE (+2.6V) OF REFERENCE VOLTAGE (TOP)
- VB : EXTERNAL CAPACITOR
- Y1 - Y9 : DIGITAL Y SIGNAL
- YA : DIGITAL Y SIGNAL
- YIRF : EXTERNAL RESISTOR CONNECTION
- YVG : EXTERNAL CAPACITOR CONNECTION

VDD (SUPPLY VOLTAGE = +5V)

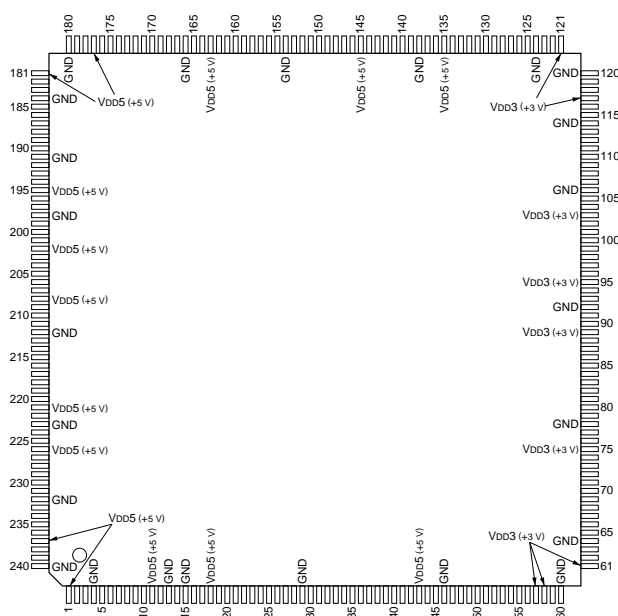
- AA-VDD : ANALOG SUPPLY VOLTAGE FOR A/D CONVERTER
- AD-VDD : DIGITAL SUPPLY VOLTAGE FOR A/D CONVERTER
- C-VDD : ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (CHROMA)
- D-VDD : DIGITAL SUPPLY VOLTAGE
- Y-VDD : ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (Y)

GND

- AA-GND : ANALOG GND FOR A/D CONVERTER
- AD-GND : DIGITAL GND FOR A/D CONVERTER
- C-GND : ANALOG GND FOR D/A CONVERTER (CHROMA)
- D-GND : DIGITAL GND
- GR : GARD RING (CONNECTED TO AA-GND)
- Y-GND : ANALOG GND FOR D/A CONVERTER (Y)



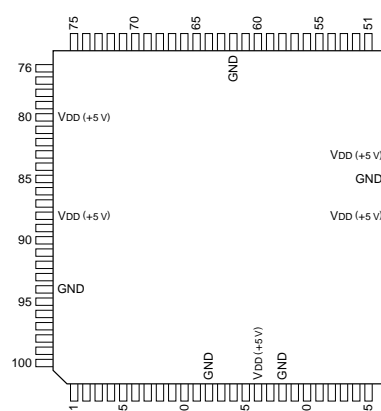
CXD8865Q (SONY)

C-MOS DYNAMIC RAM CONTROL
—TOP VIEW—

(VDD3 = +3 V, VDD5 = +5 V)

| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|------------|---------|-----|-----------|---------|-----|----------|---------|-----|------------|---------|-----|--------|---------|-----|--------|
| 1 | — | VDD5 | 49 | O | DRAMADR2 | 97 | I/O | GDRAMD1 | 145 | — | VDD5 | 193 | O | GOD1 | 241 | — | VDD5 |
| 2 | I | RIN6 | 50 | O | DRAMADR3 | 98 | I/O | GDRAMD2 | 146 | O | PGD0 | 194 | O | GOD2 | 242 | — | VDD5 |
| 3 | I | RIN7 | 51 | O | DRAMADR4 | 99 | I/O | GDRAMD3 | 147 | O | PGD1 | 195 | — | VDD5 | 243 | — | VDD5 |
| 4 | — | GND | 52 | O | DRAMADR5 | 100 | I/O | GDRAMD4 | 148 | O | PGD2 | 196 | O | GOD3 | 244 | — | VDD5 |
| 5 | I | RES | 53 | O | DRAMADR6 | 101 | I/O | GDRAMD5 | 149 | O | PGD3 | 197 | O | GOD4 | 245 | — | VDD5 |
| 6 | I | TEST | 54 | O | DRAMADR7 | 102 | I/O | GDRAMD6 | 150 | O | PGD4 | 198 | — | GND | 246 | — | VDD5 |
| 7 | I | VD | 55 | O | DRAMADR8 | 103 | — | VDD3 | 151 | O | PGD5 | 199 | O | GOD5 | 247 | — | VDD5 |
| 8 | I | HD | 56 | O | DRAMADR9 | 104 | I/O | GDRAMD7 | 152 | O | PGD6 | 200 | O | GOD6 | 248 | — | VDD5 |
| 9 | I | VBLNKV | 57 | — | VDD3 | 105 | I/O | GDRAMD8 | 153 | O | PGD7 | 201 | O | GOD7 | 249 | — | VDD5 |
| 10 | I | VBLNKR | 58 | — | VDD3 | 106 | — | GND | 154 | — | GND | 202 | — | VDD5 | 250 | — | VDD5 |
| 11 | — | VDD5 | 59 | O | DRAMCAS | 107 | I/O | GDRAMD9 | 155 | O | PBD0 | 203 | O | ROD0 | 251 | — | VDD5 |
| 12 | I | CLK | 60 | — | GND | 108 | I/O | GDRAMD10 | 156 | O | PBD1 | 204 | O | ROD1 | 252 | — | VDD5 |
| 13 | — | GND | 61 | — | VDD3 | 109 | I/O | GDRAMD11 | 157 | O | PBD2 | 205 | O | ROD2 | 253 | — | VDD5 |
| 14 | I | HCLK | 62 | O | DRAMRAS0 | 110 | I/O | GDRAMD12 | 158 | O | PBD3 | 206 | O | ROD3 | 254 | — | VDD5 |
| 15 | — | GND | 63 | O | DRAMRAS23 | 111 | I/O | GDRAMD13 | 159 | O | PBD4 | 207 | O | ROD4 | 255 | — | VDD5 |
| 16 | I | RDn | 64 | — | GND | 112 | I/O | GDRAMD14 | 160 | O | PBD5 | 208 | O | ROD5 | 256 | — | VDD5 |
| 17 | I | WRn | 65 | O | DRAMRAS45 | 113 | I/O | GDRAMD15 | 161 | O | PBD6 | 209 | — | VDD5 | 257 | — | VDD5 |
| 18 | — | VDD5 | 66 | O | DRAMRAS7 | 114 | — | GND | 162 | O | PBD7 | 210 | O | ROD6 | 258 | — | VDD5 |
| 19 | I | CS0n | 67 | O | DRAMRAS0 | 115 | I/O | BDRAMD0 | 163 | — | VDD5 | 211 | O | ROD7 | 259 | — | VDD5 |
| 20 | I | CS1n | 68 | O | DRAMRAS1 | 116 | I/O | BDRAMD1 | 164 | O | PDCLK1 | 212 | — | GND | 260 | — | VDD5 |
| 21 | I | CS2 | 69 | O | DRAMRAS2 | 117 | — | VDD3 | 165 | O | PDCLK2 | 213 | I | BIN0 | 261 | — | VDD5 |
| 22 | I | CS3 | 70 | O | DRAMRAS3 | 118 | I/O | BDRAMD2 | 166 | — | GND | 214 | I | BIN1 | 262 | — | VDD5 |
| 23 | I | ADR0 | 71 | O | DRAMRAS4 | 119 | I/O | BDRAMD3 | 167 | O | PDCLK3 | 215 | I | BIN2 | 263 | — | VDD5 |
| 24 | I | ADR1 | 72 | O | DRAMRAS5 | 120 | — | GND | 168 | O | PDCLK4 | 216 | I | BIN3 | 264 | — | VDD5 |
| 25 | I | ADR2 | 73 | O | DRAMRAS6 | 121 | — | VDD3 | 169 | O | PRTACT | 217 | I | BIN4 | 265 | — | VDD5 |
| 26 | I | ADR3 | 74 | O | DRAMRAS7 | 122 | I/O | BDRAMD4 | 170 | O | PRTBUSY | 218 | I | BIN5 | 266 | — | VDD5 |
| 27 | I | ADR4 | 75 | — | VDD3 | 123 | I/O | BDRAMD5 | 171 | O | LFTChn_MON | 219 | I | BIN6 | 267 | — | VDD5 |
| 28 | I | ADR5 | 76 | I/O | RDRAMD0 | 124 | — | GND | 172 | O | RABUSY | 220 | I | BIN7 | 268 | — | VDD5 |
| 29 | — | GND | 77 | I/O | RDRAMD1 | 125 | I/O | BDRAMD6 | 173 | O | REFRESH | 221 | — | VDD5 | 269 | — | VDD5 |
| 30 | I/O | D0 | 78 | — | GND | 126 | I/O | BDRAMD7 | 174 | O | HREFERENCE | 222 | I | GIN0 | 270 | — | VDD5 |
| 31 | I/O | D1 | 79 | I/O | RDRAMD2 | 127 | I/O | BDRAMD8 | 175 | O | MONITMG | 223 | — | GND | 271 | — | VDD5 |
| 32 | I/O | D2 | 80 | I/O | RDRAMD3 | 128 | I/O | BDRAMD9 | 176 | O | PRTTGMG | 224 | I | GIN1 | 272 | — | VDD5 |
| 33 | I/O | D3 | 81 | I/O | RDRAMD4 | 129 | I/O | BDRAMD10 | 177 | — | VDD5 | 225 | I | GIN2 | 273 | — | VDD5 |
| 34 | I/O | D4 | 82 | I/O | RDRAMD5 | 130 | I/O | BDRAMD11 | 178 | O | VBLNK | 226 | — | VDD5 | 274 | — | VDD5 |
| 35 | I/O | D5 | 83 | I/O | RDRAMD6 | 131 | I/O | BDRAMD12 | 179 | O | BLNK | 227 | I | GIN3 | 275 | — | VDD5 |
| 36 | I/O | D6 | 84 | I/O | RDRAMD7 | 132 | I/O | BDRAMD13 | 180 | — | GND | 228 | I | GIN4 | 276 | — | VDD5 |
| 37 | I/O | D7 | 85 | I/O | RDRAMD8 | 133 | I/O | BDRAMD14 | 181 | — | VDD5 | 229 | I | GIN5 | 277 | — | VDD5 |
| 38 | I | SRC_MEMOn | 86 | I/O | RDRAMD9 | 134 | I/O | BDRAMD15 | 182 | O | BOD0 | 230 | I | GIN6 | 278 | — | VDD5 |
| 39 | I | FTChn_MONI | 87 | I/O | RDRAMD10 | 135 | — | VDD5 | 183 | O | BOD1 | 231 | I | GIN7 | 279 | — | VDD5 |
| 40 | I | RATRg | 88 | I/O | RDRAMD11 | 136 | O | PRD0 | 184 | — | GND | 232 | — | GND | 280 | — | VDD5 |
| 41 | I | PDRREQ | 89 | — | VDD3 | 137 | O | PRD1 | 185 | O | BOD2 | 233 | I | RIN0 | 281 | — | VDD5 |
| 42 | I | TRG4IN1 | 90 | I/O | RDRAMD12 | 138 | — | GND | 186 | O | BOD3 | 234 | I | RIN1 | 282 | — | VDD5 |
| 43 | — | VDD5 | 91 | O | RDRAMD13 | 139 | O | PRD2 | 187 | O | BOD4 | 235 | I | RIN2 | 283 | — | VDD5 |
| 44 | O | DRAMOEEn | 92 | — | GND | 140 | O | PRD3 | 188 | O | BOD5 | 236 | I | RIN3 | 284 | — | VDD5 |
| 45 | O | DRAMWEn | 93 | I/O | RDRAMD14 | 141 | O | PRD4 | 189 | O | BOD6 | 237 | — | VDD5 | 285 | — | VDD5 |
| 46 | — | GND | 94 | I/O | RDRAMD15 | 142 | O | PRD5 | 190 | O | BOD7 | 238 | I | RIN4 | 286 | — | VDD5 |
| 47 | O | DRAMADR0 | 95 | — | VDD3 | 143 | O | PRD6 | 191 | — | GND | 239 | I | RIN5 | 287 | — | VDD5 |
| 48 | O | DRAMADR1 | 96 | I/O | GDRAMD0 | 144 | O | PRD7 | 192 | O | GOD0 | 240 | — | GND | 288 | — | VDD5 |

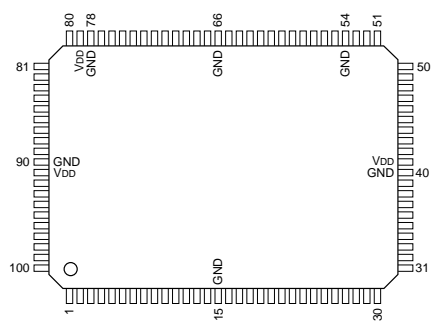
CXD8865R (SONY)

C-MOS GATE ARRAY
—TOP VIEW—

(VDD = +5 V)

| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|--------|---------|-----|----------|---------|-----|--------|---------|-----|--------|---------|-----|---------|---------|-----|--------|
| 1 | I | D46 | 21 | I | D24 | 41 | — | GND | 61 | I | A7 | 81 | O | XTALH | 101 | O | TEST1 |
| 2 | I | D45 | 22 | I | D23 | 42 | O | CLK2 | 62 | — | GND | 82 | I | P | 102 | O | TEST2 |
| 3 | I | D44 | 23 | I | D22 | 43 | — | VDD | 63 | I | A6 | 83 | O | TEST0 | 103 | O | TEST3 |
| 4 | I | D43 | 24 | I | D21 | 44 | O | CLK4 | 64 | I | A5 | 84 | O | TEST1 | 104 | O | TEST4 |
| 5 | I | D42 | 25 | I | D20 | 45 | I | LINN | 65 | I | A4 | 85 | I | OSC0 | 105 | O | TEST5 |
| 6 | I | D41 | 26 | I | HEADACTN | 46 | I | ONNOFF | 66 | I | A3 | 86 | I | OSC1 | 106 | O | TEST6 |
| 7 | I | D40 | 27 | I | PRINTPLS | 47 | I | S2 | 67 | I | A2 | 87 | I | XCLOCK | 107 | O | TEST7 |
| 8 | I | D36 | 28 | I | D16 | 48 | I | S1 | 68 | I | A1 | 88 | — | VDD | 108 | O | TEST8 |
| 9 | I | D35 | 29 | I | D15 | 49 | I | S0 | 69 | I | A0 | 89 | O | XOUTM | 109 | O | TEST9 |
| 10 | I | D34 | 30 | I | D14 | 50 | I | REN | 70 | I | RESETN | 90 | I | XINM | 110 | O | TEST10 |
| 11 | I | D33 | 31 | I | D13 | 51 | I | WEN | 71 | O | OUT7 | 91 | I | RCLKSEL | 111 | O | TEST11 |
| 12 | — | GND | 32 | I | D12 | 52 | I/O | D7 | 72 | O | OUT6 | 92 | O | XOUTH | 112 | O | TEST12 |
| 13 | I | D32 | 33 | I | D11 | 53 | I/O | D6 | 73 | O | OUT5 | 93 | I | XINH | 113 | O | TEST13 |
| 14 | I | D31 | 34 | I | D10 | 54 | I/O | D5 | 74 | O | OUT4 | 94 | — | GND | 114 | O | TEST14 |
| 15 | I | D30 | 35 | I | LATCHN | 55 | I/O | D4 | 75 | O | OUT3 | 95 | O | TEST2 | 115 | O | TEST15 |
| 16 | — | VDD | 36 | O | TEST7 | 56 | I/O | D3 | 76 | O | OUT2 | 96 | O | TEST3 | 116 | O | TEST16 |
| 17 | O | STBN | 37 | O | TEST8 | 57 | I/O | D2 | 77 | O | OUT1 | 97 | O | TEST4 | 117 | O | TEST17 |
| 18 | — | GND | 38 | — | VDD | 58 | I/O | D1 | 78 | O | OUT0 | 98 | O | TEST5 | 118 | O | TEST18 |
| 19 | I | D26 | 39 | O | TEST9 | 59 | I/O | D0 | 79 | O | XTALM | 99 | O | TEST6 | 119 | O | TEST19 |
| 20 | I | D25 | 40 | O | CLK | 60 | I | A8 | 80 | — | VDD | 100 | O | RSTNOUT | 120 | O | TEST20 |

CXD8868Q (SONY)

SEMI CUSTOM LSI
—TOP VIEW—

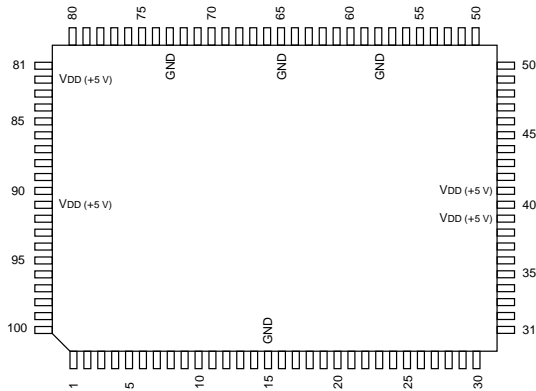
(VDD = +5 V)

| PIN No. | SIGNAL | PIN No. | SIGNAL | PIN No. | SIGNAL | PIN No. | SIGNAL | PIN No. | SIGNAL | PIN No. | SIGNAL |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 1 | CKPB | 21 | IOB5 | 41 | VDD | 61 | IOA18 | 81 | IOC11 | 101 | IOB19 |
| 2 | CKPC | 22 | IOB6 | 42 | IOA0 | 62 | IOA19 | 82 | IOC12 | 102 | IOB20 |
| 3 | CKA | 23 | IOB7 | 43 | IOA1 | 63 | IOA20 | 83 | IOC13 | 103 | IOB21 |
| 4 | CKB | 24 | IOB8 | 44 | IOA2 | 64 | IOA21 | 84 | IOC14 | 104 | IOB22 |
| 5 | CKC | 25 | IOB9 | 45 | IOA3 | 65 | IOA22 | 85 | IOC15 | 105 | IOB23 |
| 6 | SELO | 26 | IOB10 | 46 | IOA4 | 66 | GND | 86 | IOC16 | 106 | IOB24 |
| 7 | SEL1 | 27 | IOB11 | 47 | IOA5 | 67 | IOA23 | 87 | IOC17 | 107 | IOB25 |
| 8 | SEL2 | 28 | IOB12 | 48 | IOA6 | 68 | IOC0 | 88 | IOC18 | 108 | IOB26 |
| 9 | DIR0 | 29 | IOB13 | 49 | IOA7 | 69 | IOC1 | 89 | IOC19 | 109 | IOB27 |
| 10 | DIR1 | 30 | IOB14 | 50 | IOA8 | 70 | IOC2 | 90 | IOC20 | 110 | IOB28 |
| 11 | ROT1 | 31 | IOB15 | 51 | IOA9 | 71 | IOC3 | 91 | IOC21 | 111 | IOB29 |
| 12 | ROT2 | 32 | IOB16 | 52 | IOA10 | 72 | IOC4 | 92 | IOC22 | 112 | IOB30 |
| 13 | A0 | 33 | IOB17 | 53 | IOA11 | 73 | IOC5 | 93 | IOC23 | 113 | IOB31 |
| 14 | A1 | 34 | IOB18 | 54 | GND | 74 | IOC6 | 94 | IOC24 | 114 | IOB32 |
| 15 | GND | 35 | IOB19 | 55 | IOA12 | 75 | IOC7 | 95 | IOC25 | 115 | IOB33 |
| 16 | IOB0 | 36 | IOB20 | 56 | IOA13 | 76 | IOC8 | 96 | IOC26 | 116 | IOB34 |
| 17 | IOB1 | 37 | IOB21 | 57 | IOA14 | 77 | IOC9 | 97 | IOC27 | 117 | IOB35 |
| 18 | IOB2 | 38 | IOB22 | 58 | IOA15 | 78 | GND | 98 | IOC28 | 118 | IOB36 |
| 19 | IOB3 | 39 | IOB23 | 59 | IOA16 | 79 | VDD | 99 | IOC29 | 119 | IOB37 |
| 20 | IOB4 | 40 | GND | 60 | IOA17 | 80 | IOC10 | 100 | CKPA | 120 | IOB38 |

CXD8869Q (SONY)

C-MOS CELL BACE IC

—TOP VIEW—

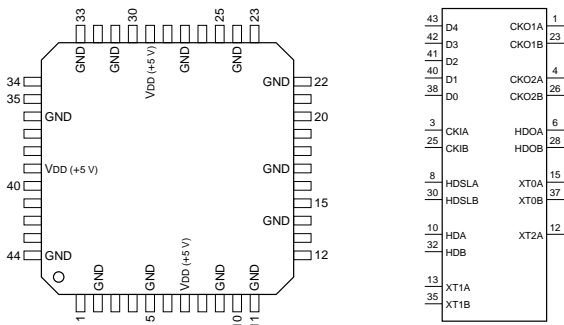


| PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL |
|---------|-----|--------|---------|-----|--------|---------|-----|--------|---------|-----|--------|
| 1 | I/O | B7 | 21 | I/O | R4 | 41 | — | VDD | 61 | I/O | OUTR6 |
| 2 | I/O | B6 | 22 | I/O | R3 | 42 | I | A3 | 62 | I/O | OUTR7 |
| 3 | I/O | B5 | 23 | I/O | R2 | 43 | I | A4 | 63 | I/O | OUTG0 |
| 4 | I/O | B4 | 24 | I/O | R1 | 44 | I | A5 | 64 | I/O | OUTG1 |
| 5 | I/O | B3 | 25 | I/O | R0 | 45 | I | A6 | 65 | — | GND |
| 6 | I/O | B2 | 26 | I | RDN | 46 | I | A7 | 66 | I/O | OUTG2 |
| 7 | I/O | B1 | 27 | I | WRN | 47 | I | A8 | 67 | I/O | OUTG3 |
| 8 | I/O | B0 | 28 | I/O | D7 | 48 | I | A9 | 68 | I/O | OUTG4 |
| 9 | I/O | G7 | 29 | I/O | D6 | 49 | I | A10 | 69 | I/O | OUTG5 |
| 10 | I/O | G6 | 30 | I/O | D5 | 50 | I | CS1N | 70 | I/O | OUTG6 |
| 11 | I/O | G5 | 31 | I/O | D4 | 51 | I | CS2N | 71 | I/O | OUTG7 |
| 12 | I/O | G4 | 32 | I/O | D3 | 52 | I | CS3 | 72 | I/O | OUTB0 |
| 13 | I/O | G3 | 33 | I/O | D2 | 53 | I | CS4 | 73 | — | GND |
| 14 | I/O | G2 | 34 | I/O | D1 | 54 | I/O | OUTR0 | 74 | I/O | OUTB1 |
| 15 | — | GND | 35 | I/O | D0 | 55 | I/O | OUTR1 | 75 | I/O | OUTB2 |
| 16 | I/O | G1 | 36 | I | A0 | 56 | I/O | OUTR2 | 76 | I/O | OUTB3 |
| 17 | I/O | G0 | 37 | I | A1 | 57 | I/O | OUTR3 | 77 | I/O | OUTB4 |
| 18 | I/O | R7 | 38 | I | A2 | 58 | — | GND | 78 | I/O | OUTB5 |
| 19 | I/O | R6 | 39 | — | VDD | 59 | I/O | OUTR4 | 79 | I/O | OUTB6 |
| 20 | I/O | R5 | 40 | I | RESETN | 60 | I/O | OUTR5 | 80 | I/O | OUTB7 |
| | | | | | | | | | 100 | I | OE1N |

CXD8932Q (SONY)

C-MOS GATE ARRAY

—TOP VIEW—

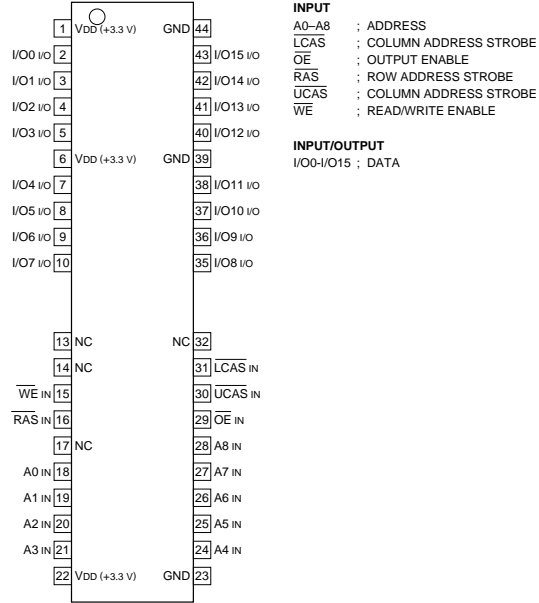


| PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL | PIN NO. | I/O | SIGNAL |
|---------|-----|--------|---------|-----|--------|---------|-----|--------|---------|-----|--------|
| 1 | O | CKO1A | 12 | O | XT2A | 23 | O | CKO1B | 34 | — | NC |
| 2 | — | GND | 13 | I | XT1A | 24 | — | GND | 35 | I | XT1B |
| 3 | I | CKIA | 14 | — | GND | 25 | I | CKIB | 36 | — | GND |
| 4 | O | CKO2A | 15 | O | XT0A | 26 | O | CKO2B | 37 | O | XT0B |
| 5 | — | GND | 16 | — | NC | 27 | — | GND | 38 | I | D0 |
| 6 | O | HDOA | 17 | — | GND | 28 | O | HDOB | 39 | — | VDD |
| 7 | — | VDD | 18 | — | NC | 29 | — | VDD | 40 | I | D1 |
| 8 | I | HDSLA | 19 | — | NC | 30 | I | HDSLB | 41 | I | D2 |
| 9 | — | GND | 20 | — | NC | 31 | — | GND | 42 | I | D3 |
| 10 | I | HDA | 21 | — | NC | 32 | I | HDB | 43 | I | D4 |
| 11 | — | GND | 22 | — | GND | 33 | — | GND | 44 | — | GND |

HM51W4265CLTT-6 (HITACHI)

C-MOS 4 M (262,144 W × 16)-BIT DYNAMIC RAM

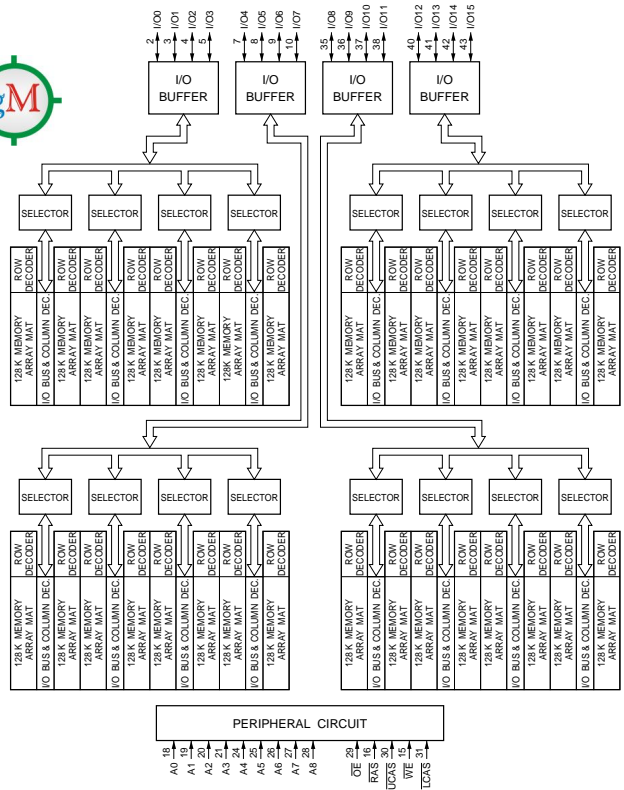
—TOP VIEW—



INPUT

A0-A8 : ADDRESS
 LCAS : COLUMN ADDRESS STROBE
 OE : OUTPUT ENABLE
 RAS : ROW ADDRESS STROBE
 UCAS : COLUMN ADDRESS STROBE
 WE : READ/WRITE ENABLE

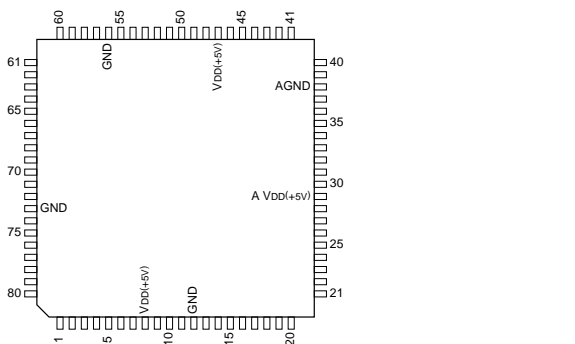
INPUT/OUTPUT
 I/O0-I/O15 : DATA



HD6413378F10 (HITACHI)

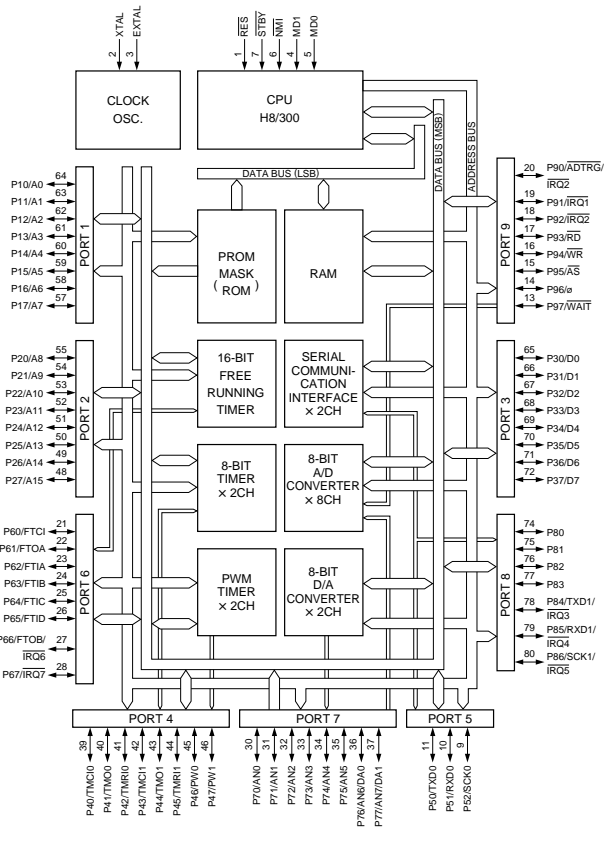
C-MOS 8-BIT SIGNAL CHIP MICRO COMPUTER

—TOP VIEW—



(VDD = +5V)

| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
|---------|-----|----------------|---------|-----|---------------|---------|-----|-----------|---------|-----|---------------|
| 1 | I | RES | 21 | I/O | P60/FTCI | 41 | I/O | P42/TMRIO | 61 | I/O | P13/A3 |
| 2 | I | XTAL | 22 | I/O | P61/FTOA | 42 | I/O | P43/TMC1 | 62 | I/O | P12/A2 |
| 3 | I | EXTAL | 23 | I/O | P62/FTIA | 43 | I/O | P44/TMO1 | 63 | I/O | P11/A1 |
| 4 | I | MD1 | 24 | I/O | P63/FTIB | 44 | I/O | P45/TMR1 | 64 | I/O | P10/A0 |
| 5 | I | MD0 | 25 | I/O | P64/FTIC | 45 | I/O | P46/PW0 | 65 | I/O | P30/D0 |
| 6 | I | NMI | 26 | I/O | P65/FTID | 46 | I/O | P47/PW1 | 66 | I/O | P31/D1 |
| 7 | I | STBY | 27 | I/O | P66/FTOB/IRQ6 | 47 | — | VDD | 67 | I/O | P32/D2 |
| 8 | — | VDD | 28 | I/O | P67/IRQ7 | 48 | I/O | P27/A15 | 68 | I/O | P33/D3 |
| 9 | I/O | P52/SCK0 | 29 | — | AVDD | 49 | I/O | P26/A14 | 69 | I/O | P34/D4 |
| 10 | I/O | P51/RXD0 | 30 | I/O | P70/ANO | 50 | I/O | P25/A13 | 70 | I/O | P35/D5 |
| 11 | I/O | P50/TXD0 | 31 | I/O | P71/AN1 | 51 | I/O | P24/A12 | 71 | I/O | P36/D6 |
| 12 | — | GND | 32 | I | P72/AN2 | 52 | I/O | P23/A11 | 72 | I/O | P37/D7 |
| 13 | I/O | P97/WAIT | 33 | I | P73/AN3 | 53 | I/O | P22/A10 | 73 | — | GND |
| 14 | I/O | P96/φ | 34 | I | P74/AN4 | 54 | I/O | P21/A9 | 74 | I/O | P80 |
| 15 | I/O | P95/AS | 35 | I | P75/AN5 | 55 | I/O | P20/A8 | 75 | I/O | P81 |
| 16 | I/O | P94/WR | 36 | I | P76/AN6/DA0 | 56 | — | GND | 76 | I/O | P82 |
| 17 | I/O | P93/RD | 37 | I | P77/AN7/DA1 | 57 | I/O | P17/A7 | 77 | I/O | P83 |
| 18 | I/O | P92/IRQ2 | 38 | — | AGND | 58 | I/O | P16/A6 | 78 | I/O | P84/TXD1/IRQ3 |
| 19 | I/O | P91/IRQ1 | 39 | I/O | P40/TMCIO | 59 | I/O | P15/A5 | 79 | I/O | P85/RXD1/IRQ4 |
| 20 | I/O | P90/ADTRG/IRQ2 | 40 | I/O | P41/TMO0 | 60 | I/O | P14/A4 | 80 | I/O | P86/SCK1/IRQ5 |

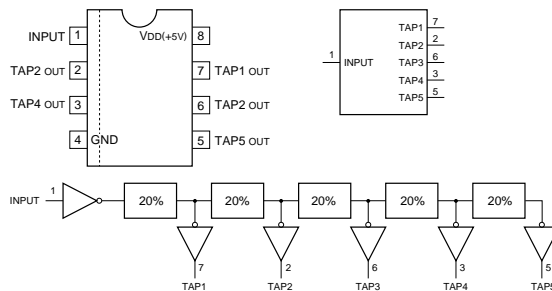


| | | | | | |
|----|-----------|----------------|----|-------------|--------------------------------|
| 64 | P10/A0 | P60/FTCI | 21 | INPUT | |
| 63 | P11/A1 | P61/FTOA | 22 | ADTRG | A/D CONVERTER EXTERNAL TRIGGER |
| 62 | P12/A2 | P62/FTIA | 23 | ANO - AN7 | ANALOG |
| 61 | P13/A3 | P63/FTIB | 24 | EXTAL | CRYSTAL OSCILLATOR |
| 60 | P14/A4 | P64/FTIC | 25 | FTCI | FRT COUNTER CLOCK |
| 59 | P15/A5 | P65/FTID | 26 | FTIA-FTID | FRT INPUT CAPTURE |
| 58 | P16/A6 | P66/FTOB/IRQ6 | 27 | IRQ0 - IRQ7 | INTERRUPT REQUEST |
| 57 | P17/A7 | P67/IRQ7 | 28 | MD0, MD1 | MODE |
| | | | | NMI | NON-MASKABLE INTERRUPT |
| 55 | P20/A8 | P70/ANO | 30 | P70 - P77 | PORT 7 |
| 54 | P21/A9 | P71/AN1 | 31 | RES | RESET |
| 53 | P22/A10 | P72/AN2 | 32 | RXD0, RXD1 | RECEIVE DATA |
| 52 | P23/A11 | P73/AN3 | 33 | STBY | STANDBY |
| 51 | P24/A12 | P74/AN4 | 34 | TMCIO, TMC1 | 8-BIT TIMER CLOCK |
| 50 | P25/A13 | P75/AN5 | 35 | TMRIO, TMR1 | 8-BIT TIMER COUNTER RESET |
| 49 | P26/A14 | P76/AN6/DA0 | 36 | WAIT | WAIT |
| 48 | P27/A15 | P77/AN7/DA1 | 37 | XTAL | CRYSTAL OSCILLATOR |
| | | | | φ | SYSTEM CLOCK |
| 65 | P30/D0 | P80 | 74 | OUTPUT | |
| 66 | P31/D1 | P81 | 75 | A0 - A15 | ADDRESS BUS |
| 67 | P32/D2 | P82 | 76 | AS | ADDRESS STROBE |
| 68 | P33/D3 | P83 | 77 | DA0, DA1 | ANALOG |
| 69 | P34/D4 | P84/TXD1/IRQ3 | 78 | FTOA, FTOB | FRT OUTPUT COMPARE |
| 70 | P35/D5 | P85/RXD1/IRQ4 | 79 | PW0, PW1 | PWM TIMER |
| 71 | P36/D6 | P86/SCK1/IRQ5 | 80 | RD | READ |
| 72 | P37/D7 | | | TMO0, TMO1 | 8-BIT TIMER |
| 39 | P40/TMCIO | P90/ADTRG/IRQ2 | 20 | TXD0, TXD1 | TRANSCIEVER DATA |
| 40 | P41/TMO0 | P91/IRQ1 | 19 | WR | WRITE |
| 41 | P42/TMRIO | P92/IRQ2 | 18 | | |
| 42 | P43/TMR1 | P93/RD | 17 | | |
| 43 | P44/TMO1 | P94/WR | 16 | | |
| 44 | P45/TMR1 | P95/AS | 15 | | |
| 45 | P46/PW0 | P96/φ | 14 | | |
| 46 | P47/PW1 | P97/WAIT | 13 | | |
| 11 | P50/TXD0 | | | | |
| 10 | P51/RXD0 | | | | |
| 9 | P52/SCK0 | | | | |
| 1 | RES | | | | |
| 2 | XTAL | | | | |
| 3 | EXTAL | | | | |

DS1000Z-50 (DALLAS SEMICONDUCTOR)
 DS1000Z-50(TE2)
 DS1000Z-75
 DS1000Z-75(TE2) (DALLAS SEMICONDUCTOR)

C-MOS DELAY LINE

—TOP VIEW—

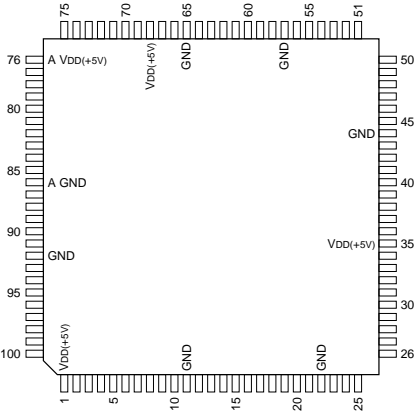


| TYPE. NO. | DELAY TIME (ns) | | | | |
|-------------|-----------------|------|------|------|------|
| | TAP1 | TAP2 | TAP3 | TAP4 | TAP5 |
| DS1000M-50 | 10 | 20 | 30 | 40 | 50 |
| DS1000M-60 | 12 | 24 | 36 | 48 | 60 |
| DS1000M-75 | 15 | 30 | 45 | 60 | 75 |
| DS1000M-100 | 20 | 40 | 60 | 80 | 100 |
| DS1000M-125 | 25 | 50 | 75 | 100 | 125 |
| DS1000M-150 | 30 | 60 | 90 | 120 | 150 |
| DS1000M-175 | 35 | 70 | 105 | 140 | 175 |
| DS1000M-200 | 40 | 80 | 120 | 160 | 200 |
| DS1000M-250 | 50 | 100 | 150 | 200 | 250 |
| DS1000M-500 | 100 | 200 | 300 | 400 | 500 |
| DS1000Z-25 | 5 | 10 | 15 | 20 | 25 |
| DS1000Z-100 | 20 | 40 | 60 | 80 | 100 |

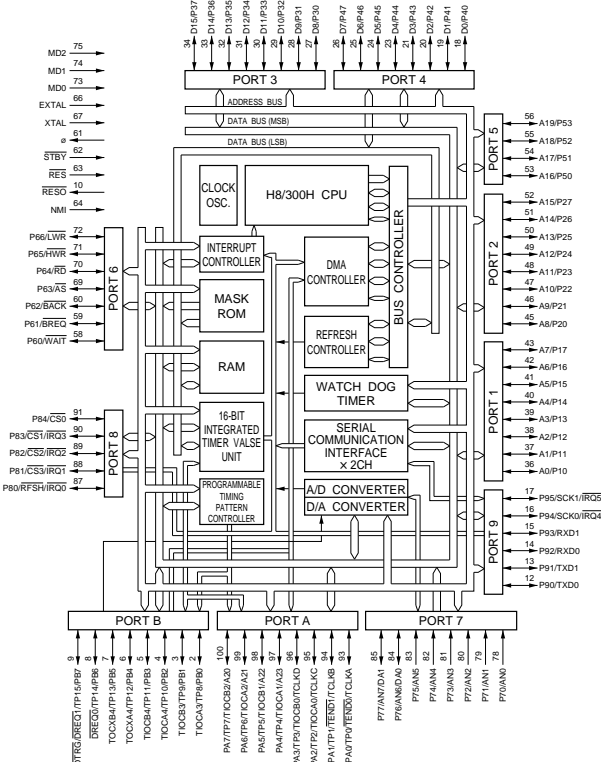
HD6433040S-A00F (HITACHI)

C-MOS 16-BIT MICRO PROCESSOR

—TOP VIEW—



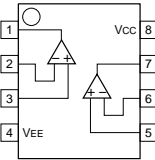
| (VDD = +5V) | | | | | | | | | | | |
|-------------|-----|----------------------|---------|-----|---------|---------|-----|----------|---------|-----|---------------------|
| PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL | PIN No. | I/O | SIGNAL |
| 1 | — | VDD | 26 | I/O | P47/D7 | 51 | I/O | P26/A14 | 76 | — | A VDD |
| 2 | I/O | PB0/TIOCA3/TP8 | 27 | I/O | P30/D8 | 52 | I/O | P27/A15 | 77 | I | VREF |
| 3 | I/O | PB1/TIOCB3/TP9 | 28 | I/O | P31/D9 | 56 | I/O | P50/A16 | 78 | I | P70/A0 |
| 4 | I/O | PB2/TIOCA4/TP10 | 29 | I/O | P32/D10 | 54 | I/O | P51/A17 | 79 | I | P71/A1 |
| 5 | I/O | PB3/TIOCB4/TP11 | 30 | I/O | P33/D11 | 55 | I/O | P52/A18 | 80 | I | P72/A2 |
| 6 | I/O | PB4/TIOCA4/TP12 | 31 | I/O | P34/D12 | 56 | I/O | P53/A19 | 81 | I | P73/A3 |
| 7 | I/O | PB5/TIOCB4/TP13 | 32 | I/O | P35/D13 | 57 | — | GND | 82 | I | P74/A4 |
| 8 | I/O | PB6/DREQ0/TP14 | 33 | I/O | P36/D14 | 58 | I/O | P60/WAIT | 83 | I | P75/A5 |
| 9 | I/O | PB7/ADTRG/DREQ1/TP15 | 34 | I/O | P37/D15 | 59 | I/O | P61/BREQ | 84 | I/O | P76/A6/DA0 |
| 10 | O | RESO | 35 | — | VDD | 60 | I/O | P62/BACK | 85 | I/O | P77/A7/DA1 |
| 11 | — | GND | 36 | I/O | P10/A0 | 61 | O | ø | 86 | — | A GND |
| 12 | I/O | P90/TXD0 | 37 | I/O | P11/A1 | 62 | I | STBY | 87 | I/O | P80/RF/SHR/RO |
| 13 | I/O | P91/TXD1 | 38 | I/O | P12/A2 | 63 | I | RES | 88 | I/O | P81/CS3/RAS1/RO1 |
| 14 | I/O | P92/RXD0 | 39 | I/O | P13/A3 | 64 | I | NMI | 89 | I/O | P82/CS2/RO2 |
| 15 | I/O | P93/RXD1 | 40 | I/O | P14/A4 | 65 | — | GND | 90 | I/O | P83/CS1/RO3 |
| 16 | I/O | P94/IRQ4/SCK0 | 41 | I/O | P15/A5 | 66 | I | EXTAL | 91 | I/O | P84/CS0 |
| 17 | I/O | P95/IRQ5/SCK1 | 42 | I/O | P16/A6 | 67 | I | XTAL | 92 | — | GND |
| 18 | I/O | P40/D0 | 43 | I/O | P17/A7 | 68 | — | VDD | 93 | I/O | PA0/PT/INTEN/CLKA |
| 19 | I/O | P41/D1 | 44 | — | GND | 69 | I/O | P63/AS | 94 | I/O | PA1/PT/INTEN/CLKB |
| 20 | I/O | P42/D2 | 45 | I/O | P20/A8 | 70 | I/O | P64/RD | 95 | I/O | PA2/PT/INT/CLKC |
| 21 | I/O | P43/D3 | 46 | I/O | P21/A9 | 71 | I/O | P65/HWR | 96 | I/O | PA3/PT/INT/CLKD |
| 22 | — | GND | 47 | I/O | P22/A10 | 72 | I/O | P66/LWR | 97 | I/O | PA4/PT/INT/CLKA1/23 |
| 23 | I/O | P44/D4 | 48 | I/O | P23/A11 | 73 | I | MD0 | 98 | I/O | PA5/PT/IOCB1/A22 |
| 24 | I/O | P45/D5 | 49 | I/O | P24/A12 | 74 | I | MD1 | 99 | I/O | PA6/PT/IOCA2/A21 |
| 25 | I/O | P46/D6 | 50 | I/O | P25/A13 | 75 | I | MD2 | 100 | I/O | PA7/PT/IOCB2/A20 |



LM358PS (TI) FLAT PACKAGE
LM358PS-E05

DUAL OPERATIONAL AMPLIFIERS
(SINGLE-SUPPLY TYPE)

—TOP VIEW—

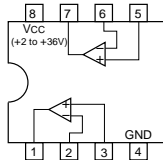


| TYPE | VCC - VEE |
|------------|--------------|
| 828 TYPE | +5 to +36V |
| 2244 TYPE | +2.5 to +36V |
| 2904 TYPE | +3 to +24V |
| 3404 TYPE | +4 to +32V |
| 3414 TYPE | +3 to +10V |
| 4572 TYPE | +4 to +14V |
| 5216 TYPE | +4 to +32V |
| 7022 TYPE | +3 to +16V |
| 75W01 TYPE | +3 to +10V |
| 33172 TYPE | +3 to +44V |
| OTHERS | +3 to +36V |

LM393PS (TI) FLAT PACKAGE
LM393PS-E05

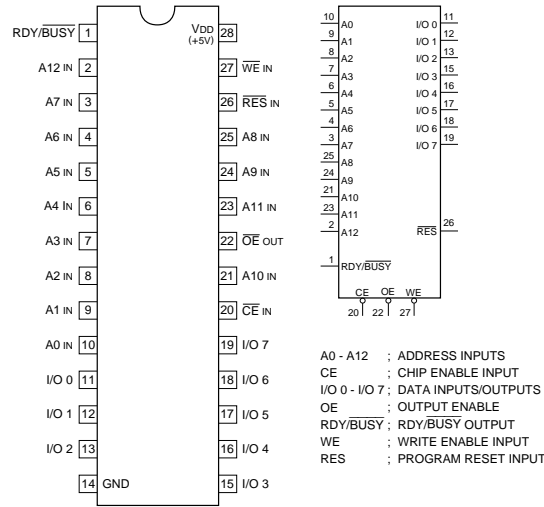
DUAL VOLTAGE COMPARATORS

—TOP VIEW—



HN58C66FP-25 (HITACHI) HN58C66SFP25TZ

C-MOS 64K (8192 × 8)-BIT EEPROM
—TOP VIEW—

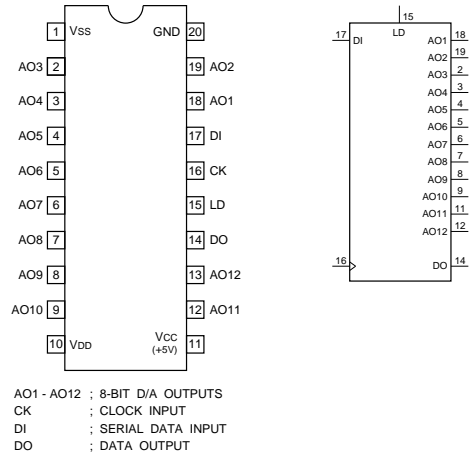


| CE | OE | WE | RDY/BUSY | RES | I/O TERMINAL | FUNCTION |
|----|----|----|----------|-----|-----------------|---------------|
| 0 | 0 | 1 | HI-Z | 1 | DOUT | READ |
| 1 | X | X | HI-Z | X | HI-Z | STANDBY |
| 0 | 1 | 0 | HI-Z-LOW | 1 | DIN | WRITE |
| 0 | 1 | 1 | HI-Z | 1 | HI-ZL | DESELECT |
| X | X | 1 | HI-Z | X | — | WRITE INH |
| X | 0 | X | HI-Z | X | — | WRITE INH |
| 0 | 0 | 1 | LOW | 1 | DATA OUT (1/07) | DATA POLLING |
| X | X | X | HI-Z | 0 | HI-Z | PROGRAM RESET |

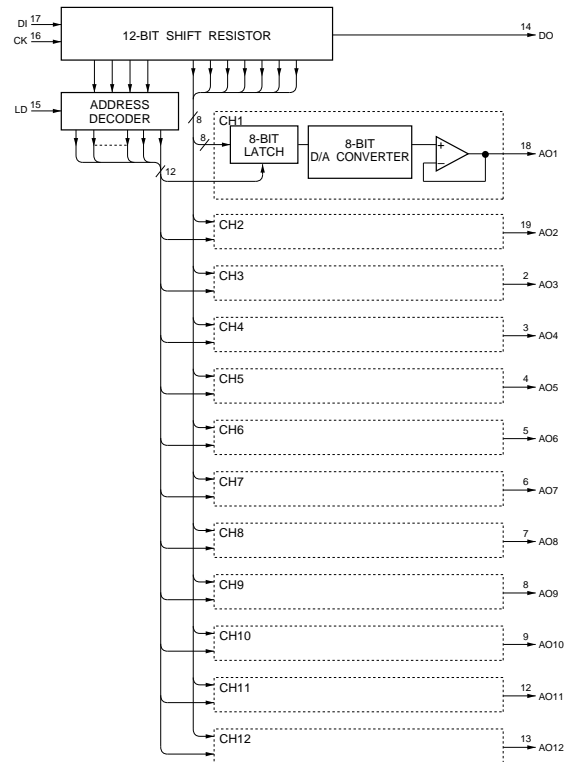
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

M62352GP (MITSUBISHI) FLAT PACKAGE M62352GP-75EC

C-MOS 8-BIT × 12 CHANNEL D/A CONVERTER
(WITH BUFFER OPERATIONAL AMPLIFIER)
—TOP VIEW—

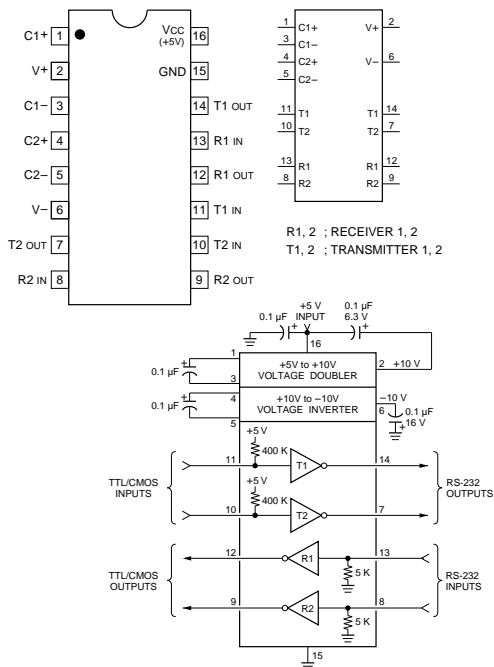


NOTE:
3.5 V < VDD < VCC
-3.5 V < VSS < VCC



MAX202CSE (MAXIM) MAX202CSE-TE2

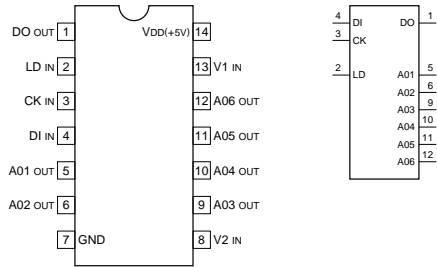
RS-232 TRANSMITTER/RECEIVER
—TOP VIEW—



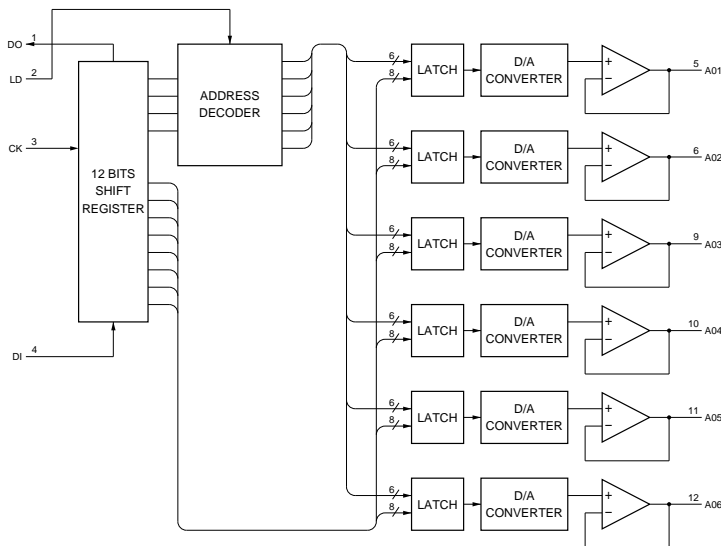
M62354FP-T1 (MITSUBISHI)

C-MOS 8 BITS 6 CHANNEL D/A CONVERTER

—TOP VIEW—



| | | |
|-----------|---|--|
| A01 - A06 | : | 8 BITS D/A OUTPUTS |
| CK | : | CLOCK INPUT |
| DI | : | 12 BITS SERIAL DATA INPUT |
| DO | : | BIT DATA OF MSB OF 12 BITS SHIFT REGISTER OUTPUT |
| LD | : | LOAD INPUT |
| V1 | : | REFERENCE VOLTAGE (UPPER) +3.5 to +5 (V _{DD}) V |
| V2 | : | REFERENCE VOLTAGE (LOWER) 0 to +1.5 (V _{DD} -3.5) V |

[illegible]

| D8 | D9 | D10 | D11 | ADDRESS SELECT |
|----|----|-----|-----|----------------|
| 0 | 0 | 0 | 0 | X |
| 0 | 0 | 0 | 1 | A01 |
| 0 | 0 | 1 | 0 | A02 |
| 0 | 0 | 1 | 1 | A03 |
| 0 | 1 | 0 | 0 | A04 |
| 0 | 1 | 0 | 1 | A05 |
| 0 | 1 | 1 | 0 | A06 |
| 0 | 1 | 1 | 1 | X |
| 1 | X | X | X | X |

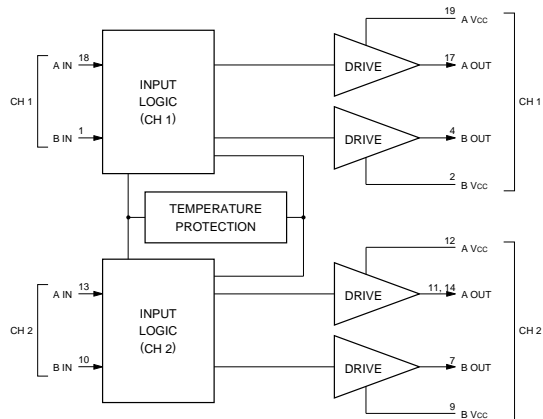
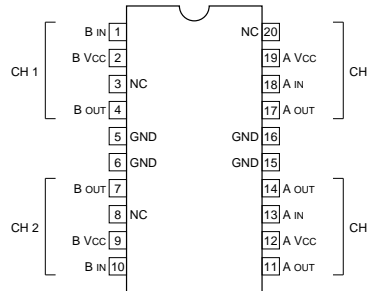
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

MB3863PF-G-BND (FUJITSU)

MB3863PF-G-BND-ER

DUAL MODE MOTOR DRIVER

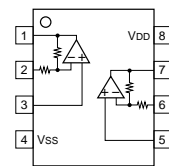
—TOP VIEW—



MC14576CFEL (MOTOROLA)FLAT PACKAGE

C-MOS DUAL VIDEO AMPLIFIERS

—TOP VIEW—

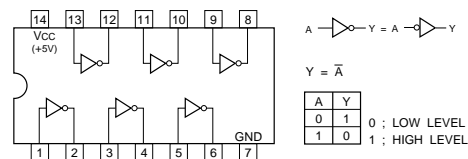


*VDD + | VSS | = +5 to +12V

MC74F04MEL (MOTOROLA)FLAT PACKAGE

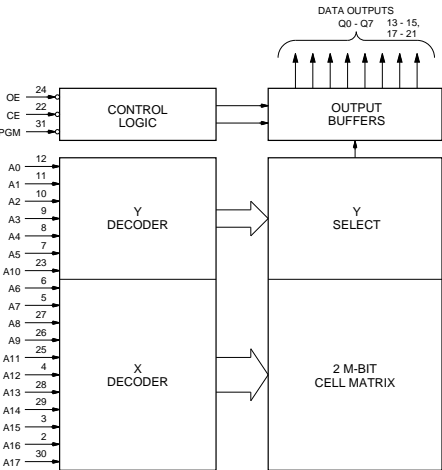
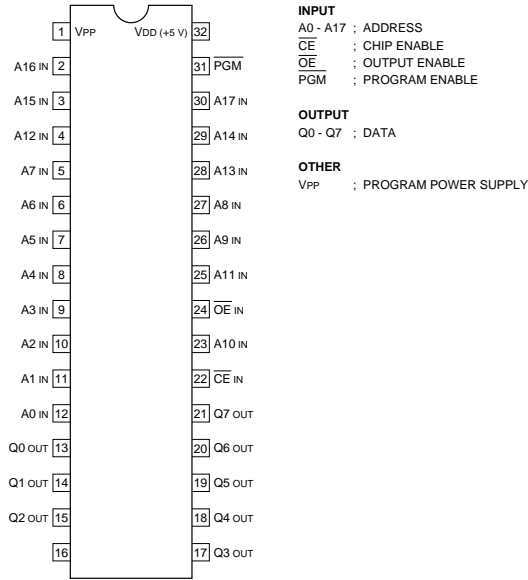
TTL INVERTER

—TOP VIEW—



MX27C2000DC-12 (MACRONIX)

C-MOS 2 M (256 K × 8)-BIT ERASABLE PROM
—TOP VIEW—

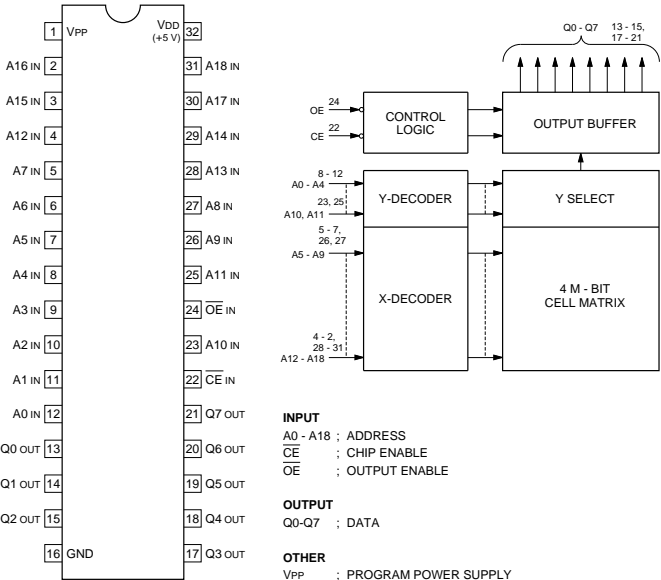


| MODE | TERMINAL | CE | OE | PGM | A0 | A9 | Vpp | OUTPUT |
|-----------------|----------|------------------------|----|-----|----|----|---------|--------|
| READ | | 0 | 0 | x | x | x | +5 V | D OUT |
| OUTPUT DISABLE | | 0 | 1 | x | x | x | +5 V | HI-Z |
| STANDBY (TTL) | | 1 | x | x | x | x | +5 V | HI-Z |
| STANDBY (CMOS) | | V _{DD} ±0.3 V | x | x | x | x | +5 V | HI-Z |
| PROGRAM | | 0 | 1 | 0 | x | x | +12.5 V | D IN |
| PROGRAM VERIFY | | 0 | 0 | 1 | x | x | +12.5 V | D OUT |
| PROGRAM INHIBIT | | 1 | x | x | x | x | +12.5 V | HI-Z |

0 ; LOW LEVEL
1 ; HIGH LEVEL
x ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

MX27C4000MC-12-TEL (MACRONIX)

C-MOS 4 M (512 K × 8)-BIT ERASABLE PROM
—TOP VIEW—

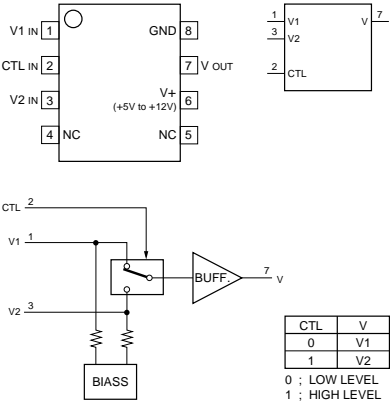


| MODE | TERMINAL | CE | OE | A0 | A9 | Vpp | OUTPUT |
|-----------------|----------|------------------------|----|----|----|---------|--------|
| READ | | 0 | 0 | x | x | +5 V | D OUT |
| OUTPUT DISABLE | | 0 | 1 | x | x | +5 V | HI-Z |
| STANDBY (TTL) | | 1 | x | x | x | +5 V | HI-Z |
| STANDBY (CMOS) | | V _{DD} ±0.3 V | x | x | x | +5 V | HI-Z |
| PROGRAM | | 0 | 1 | x | x | +12.5 V | D IN |
| PROGRAM VERIFY | | 1 | 0 | x | x | +12.5 V | D OUT |
| PROGRAM INHIBIT | | 1 | x | x | x | +12.5 V | HI-Z |

0 ; LOW LEVEL
1 ; HIGH LEVEL
x ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

NJM2233BM (JRC)FLAT PACKAGE
NJM2233BM(TE2)

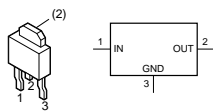
2-INPUT VIDEO SIGNAL SWITCH
—TOP VIEW—



PQ05SZ1U (SHARP)+5 V 1 A

POSITIVE VOLTAGE REGULATOR

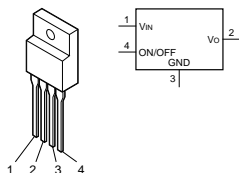
—TOP VIEW—



PQ3RF33 (SHARP)+3.5 V

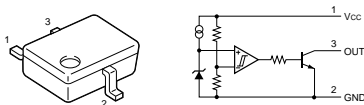
POSITIVE VOLTAGE REGULATOR (1A)

—TOP VIEW—



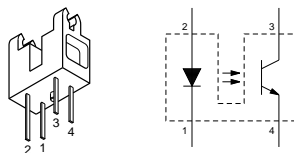
PST572CMT (MITSUMI)Vs=4.5 V

PST572CMT-T1



RPI-5100 (ROHM)

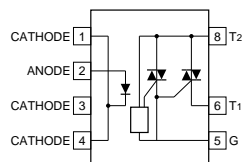
PHOTO INTERRUPTER



S16MD01 (SHARP)

SOLID STATE RELAY

—TOP VIEW—

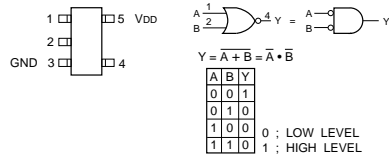


SC7S02F (MOTOROLA)CHIP PACKAGE

TC7S02F (TE85R)

C-MOS 2-INPUT NOR GATE

—TOP VIEW—

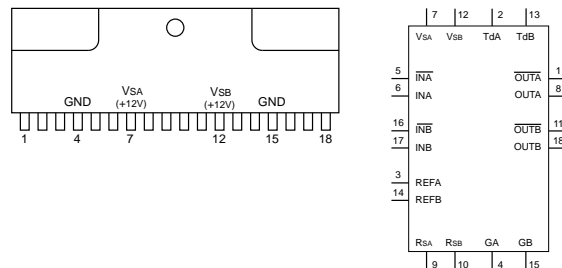


| TYPE | VDD |
|---------|------------|
| 4S01F | +3 to +18V |
| 7S02F | |
| 7S02FU | +2 to +6V |
| 7SH02FU | |

SLA7024M (SANKEN)

STEPPING MOTOR UNIPOLAR DRIVING

—SIDE VIEW—

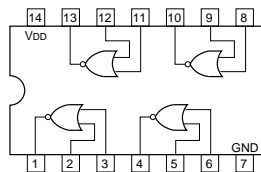


SN74HC02ANS (TI)FLAT PACKAGE

SN74HC02ANS-E05

C-MOS QUAD 2-INPUT NOR GATES

—TOP VIEW—



$$Y = \overline{A + B} = \overline{A} \cdot \overline{B}$$

| A | B | Y |
|---|---|---|
| 0 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 0 |

0 ; LOW LEVEL
1 ; HIGH LEVEL

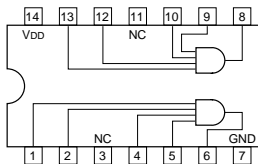
NOTE:

| TYPE | VDD |
|-------------|---------------|
| 74HC | +2 to +6V |
| 74AC/74VHC | +2 to +5.5V |
| 74HCT/74ACT | +4.5 to +5.5V |
| 74LCX | +2 to +3.6V |

SN74HC21ANS (TI) FLAT PACKAGE SN74HC21ANS-E05

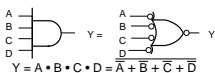
C-MOS DUAL 4-INPUT POSITIVE AND GATE

—TOP VIEW—



NOTE:

| TYPE | V _{DD} |
|------|-----------------|
| HC | +2V to +6V |
| VHC | +2V to +5.5V |



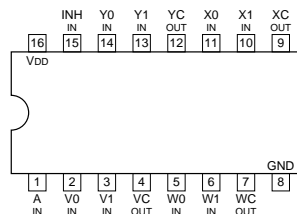
| A | B | C | D | Y |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 |

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DONT CARE

SN74HC257ANS-E05 (TI) FLAT PACKAGE

C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

—TOP VIEW—

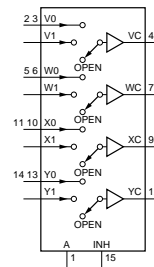


| CONT. IN | ON CHANNEL |
|----------|------------|
| INH | A |
| 0 | 0 |
| 0 | 1 |
| 1 | X |
| | OPEN |

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DONT CARE

NOTE :

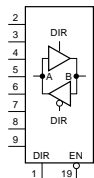
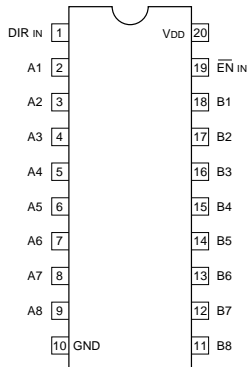
| TYPE | V _{DD} |
|------------|-----------------|
| 74AC/74HC | +2 to +6V |
| 74ACT | +5V |
| TC74AC257F | +2 to +5.5V |



SN74HC245ANS (TI) FLAT PACKAGE SN74HC245ANS-E05

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS

—TOP VIEW—

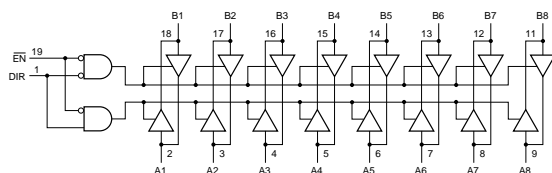


| EN | DIR | OPERATION |
|----|-----|-----------|
| 0 | 0 | B to A |
| 0 | 1 | A to B |
| 1 | X | Hi-Z |

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DONT CARE
Hi-Z ; HIGH IMPEDANCE

NOTE:

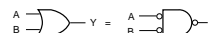
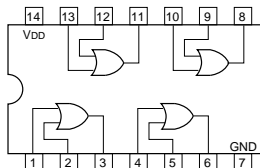
| TYPE | V _{DD} |
|-------|-----------------|
| 74HC | +2 to +6V |
| 74ABT | |
| 74ACT | +4.5 to +5.5V |
| 74BCT | |
| 74HCT | |
| 74AC | +2 to +5.5V |
| 74VHC | |
| 74LCX | +2 to +3.6V |
| 74LVT | +2.7 to +3.6V |



SN74HC32ANS (TI) FLAT PACKAGE SN74HC32ANS-E05

C-MOS QUAD 2-INPUT OR GATES

—TOP VIEW—



| A | B | Y |
|---|---|---|
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

0 ; LOW LEVEL
1 ; HIGH LEVEL

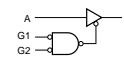
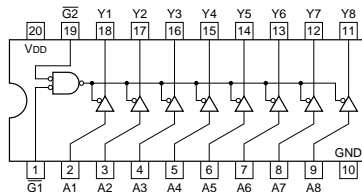
NOTE:

| TYPE | V _{DD} |
|------------|-----------------|
| 74AC/74VHC | +2 to +5.5V |
| 74HC | +2 to +6V |
| 74HCT | +4.5 to +5.5V |

SN74HC541ANS (TI) FLAT PACKAGE SN74HC541ANS-E05

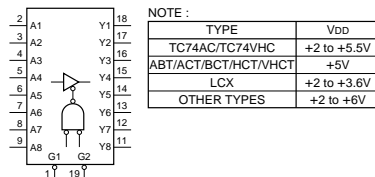
C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

—TOP VIEW—



| G1 | G2 | A | Y |
|----|----|---|------|
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 1 | X | X | Hi-Z |
| X | 1 | X | Hi-Z |

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DONT CARE
Hi-Z ; HIGH IMPEDANCE

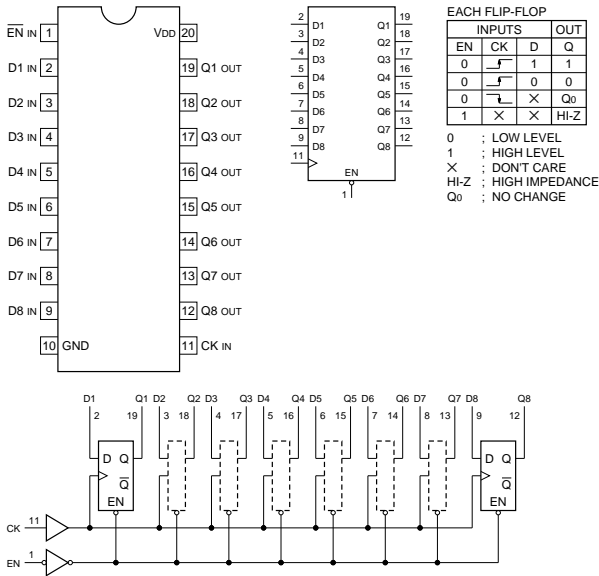


NOTE :

| TYPE | V _{DD} |
|----------------------|-----------------|
| TC74AC/TC74VHC | +2 to +5.5V |
| ABT/ACT/BCT/HCT/VHCT | +5V |
| LCX | +2 to +3.6V |
| OTHER TYPES | +2 to +6V |

SN74HC574ANS (TI) FLAT PACKAGE SN74HC574ANS-E05

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
—TOP VIEW—

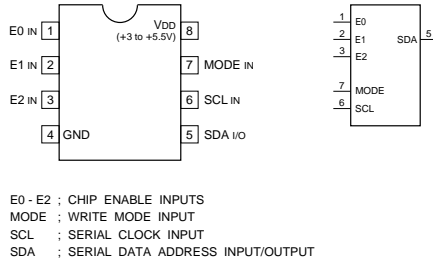


NOTE:

| TYPE | V _{DD} |
|-----------------------------|-----------------|
| 74HC | +2 to +6V |
| 74AC/74VHC | +2 to +5.5V |
| 74ACT/74FCT 74HCT/74VHCT | +4.5 to +5.5V |
| 74LCX | +2 to +3.6V |
| 74LVC | +2.7 to +3.6V |

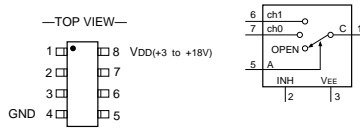
ST24C01FM6TR (SGS)

C-MOS SERIAL ACCESS 1K (128 × 8)-BIT EEPROM
—TOP VIEW—



TC4W53F (TOSHIBA) CHIP PACKAGE (5.0 X 3.1) TC4W53F (TE12R)

C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER



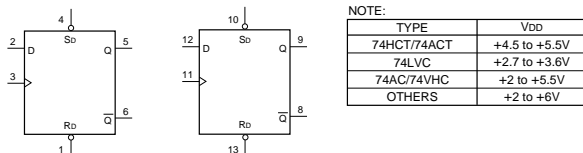
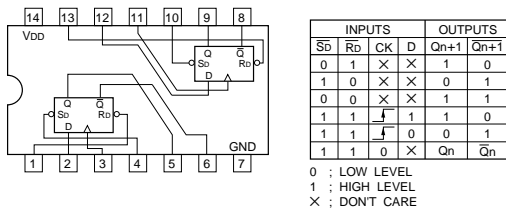
| CONT. INPUT | | ON |
|-------------|---|---------|
| INH | A | CHANNEL |
| 0 | 0 | ch0 |
| 0 | 1 | ch1 |
| 1 | X | OPEN |

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE



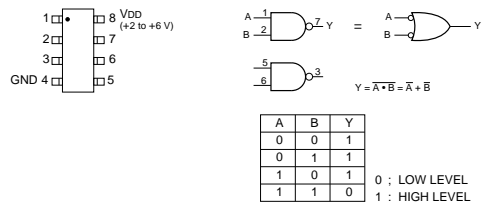
SN74HC74ANS (TI) FLAT PACKAGE SN74HC74ANS-E05

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET
—TOP VIEW—



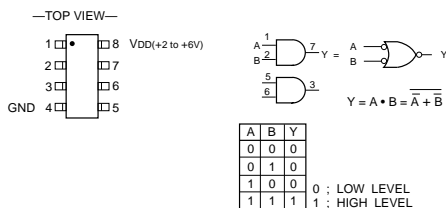
TC7W00F (TE12R) (TOSHIBA) CHIP PACKAGE

C-MOS DUAL 2-INPUT NAND GATE
—TOP VIEW—



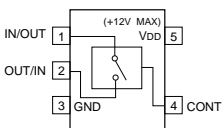
TC7W08F (TOSHIBA) CHIP PACKAGE TC7W08F (TE12R)

C-MOS 2-INPUT AND GATE



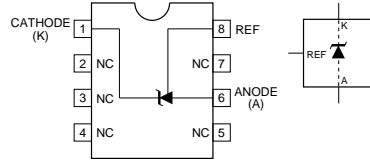
TC7S66F (TOSHIBA) TC7S66F (TE85R)

C-MOS ANALOG SWITCH
—TOP VIEW—



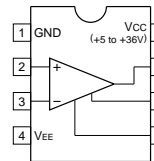
TL431CPS (TI)FLAT PACKAGE TL431CPS-E20

ADJUSTABLE PRECISION SHUNT REGULATOR
—TOP VIEW—



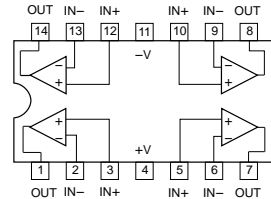
UPC311G2 (NEC)FLAT PACKAGE UPC311G2-E2

VOLTAGE COMPARATOR
—TOP VIEW—



UPC324G2 (NEC)FLAT PACKAGE UPC324G2-E2

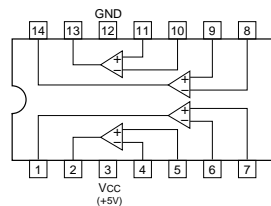
QUAD OPERATIONAL AMPLIFIERS
—TOP VIEW—



| | +V | -V |
|---------------|--------------|--------------|
| SINGLE SUPPLY | +3 to +32V | GND |
| DUAL SUPPLIES | +1.5 to +16V | -1.5 to -16V |

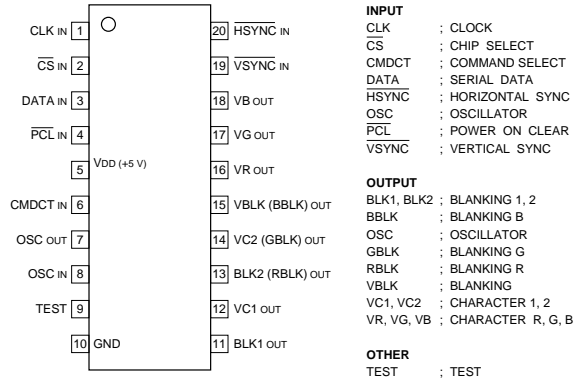
UPC339G2-E2 (NEC)FLAT PACKAGE

QUAD COMPARATORS
—TOP VIEW—

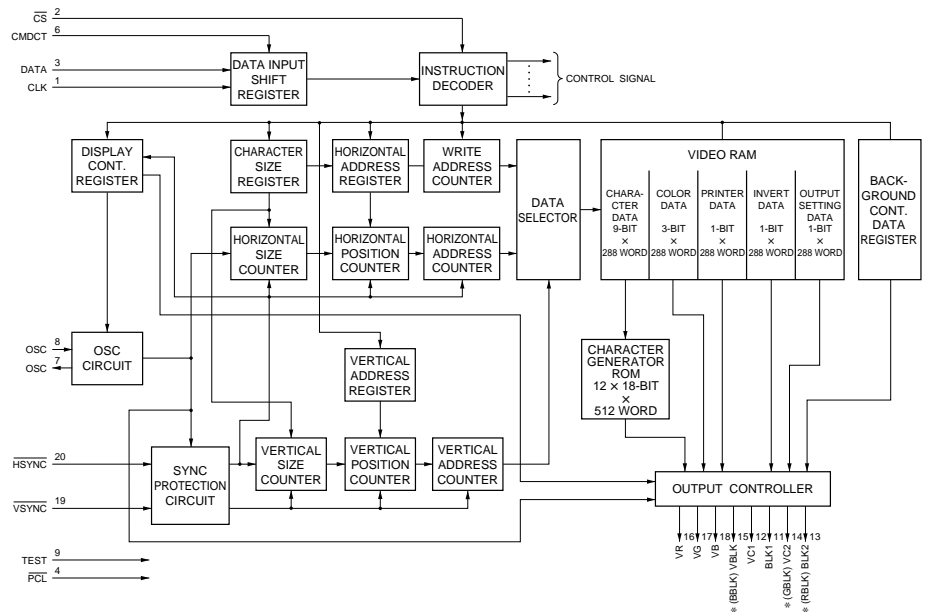


UPD6466GS-502-E2 (NEC)

C-MOS ON-SCREEN CHARACTER DISPLAY
—TOP VIEW—



* IN () ARE SET BY SETTING WITH INITIAL CONDITION SETTING COMMAND.



SECTION 8

SPARE PARTS

8-1. NOTES ON SPARE PARTS

(1) Safety Related Components Warning

Components marked \triangle are critical to safe operation.
Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts

Spare parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present" .

(3) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

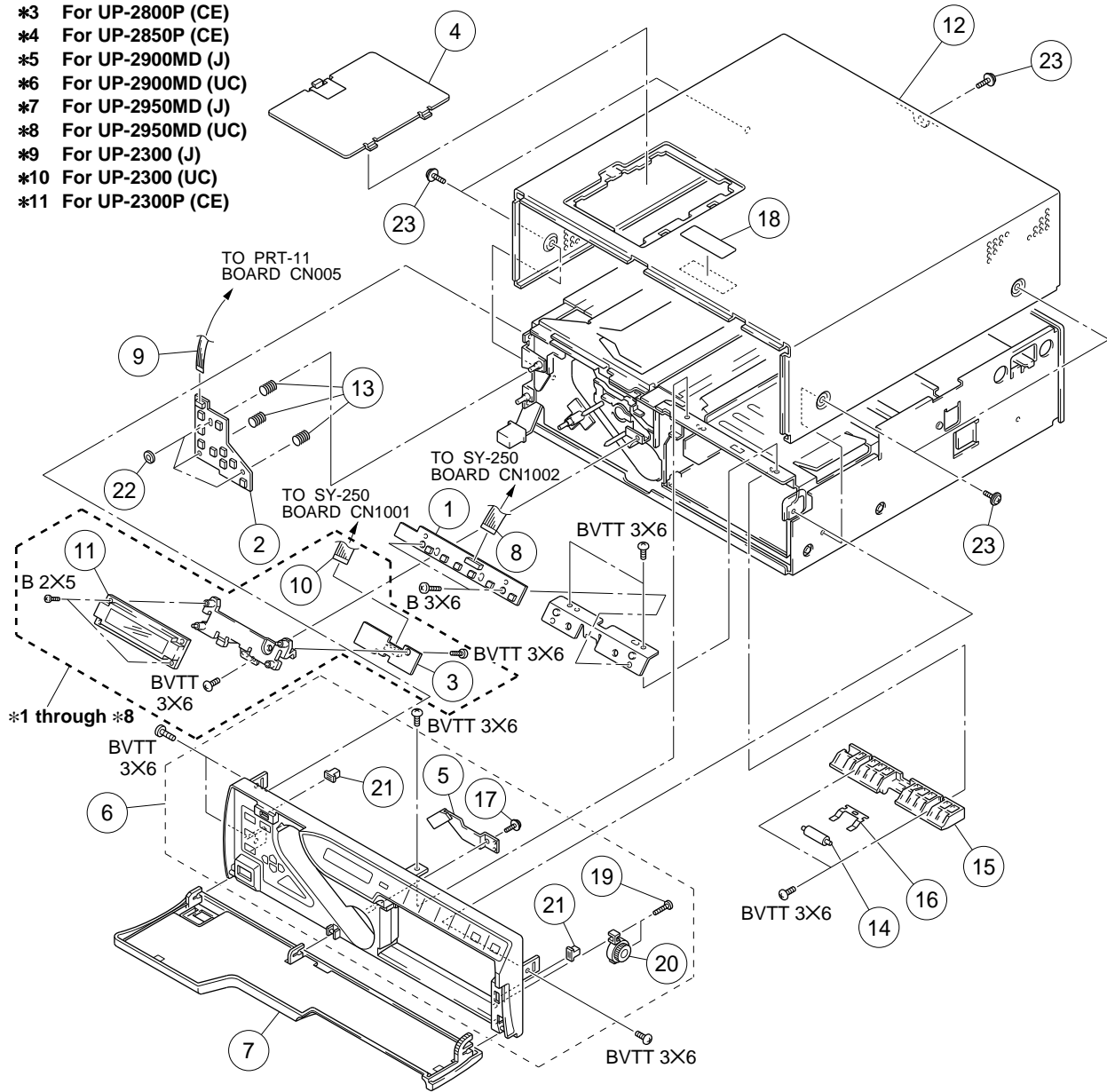
Capacitors : μF

Inductors : μH

Resistors : Ω

8-2. EXPLODED VIEWS

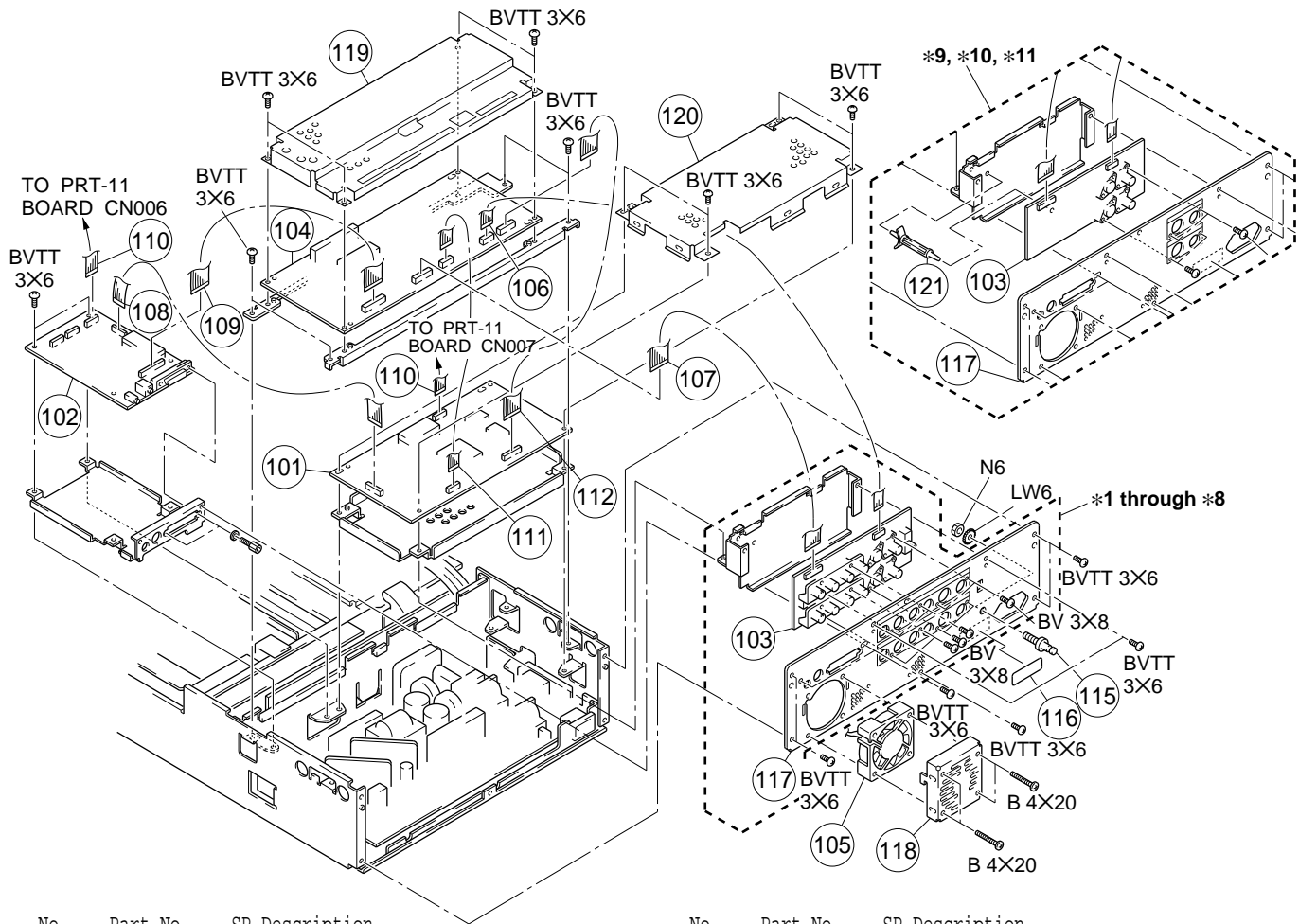
- NOTE : *1 For UP-2800 (J)
 *2 For UP-2800 (UC)
 *3 For UP-2800P (CE)
 *4 For UP-2850P (CE)
 *5 For UP-2900MD (J)
 *6 For UP-2900MD (UC)
 *7 For UP-2950MD (J)
 *8 For UP-2950MD (UC)
 *9 For UP-2300 (J)
 *10 For UP-2300 (UC)
 *11 For UP-2300P (CE)



| No. | Part No. | SP Description |
|-----|--------------|--|
| 1 | A-8315-859-A | o MOUNTED CIRCUIT BOARD, KY-401 |
| 2 | A-8315-861-A | o MOUNTED CIRCUIT BOARD, KY-402 |
| 3 | A-8315-870-A | o MOUNTED CIRCUIT BOARD, CN-1520 *1, *2, *3, *4, *5, *6, *7, *8 |
| 4 | X-3679-335-3 | o LID ASSY, TOP COVER |
| 5 | X-3679-336-1 | s SPRING ASSY, RIBBON EJECT |
| 6 | X-3679-337-1 | s PANEL ASSY, FRONT *1, *2, *3, *4, *5, *6, *7, *8 |
| | X-3679-383-1 | s PANEL ASSY, FRONT *9, *10, *11 |
| 7 | X-3679-338-1 | s DOOR ASSY, FRONT *1, *2 |
| | X-3679-343-1 | s DOOR ASSY, FRONT(2800P) *3 |
| | X-3679-344-1 | s DOOR ASSY, FRONT(2900MD) *5, *6 |
| | X-3679-345-1 | s DOOR ASSY, FRONT(2950MD) *7, *8 |
| | X-3679-346-1 | s DOOR ASSY, FRONT(2850P) *4 |
| | X-3679-384-1 | s DOOR ASSY, FRONT(2300) *9, *10 |
| | X-3679-385-1 | s DOOR ASSY, FRONT(2300P) *11 |
| 8 | 1-782-727-11 | s WIRE, FLAT TYPE (14-CORE) |

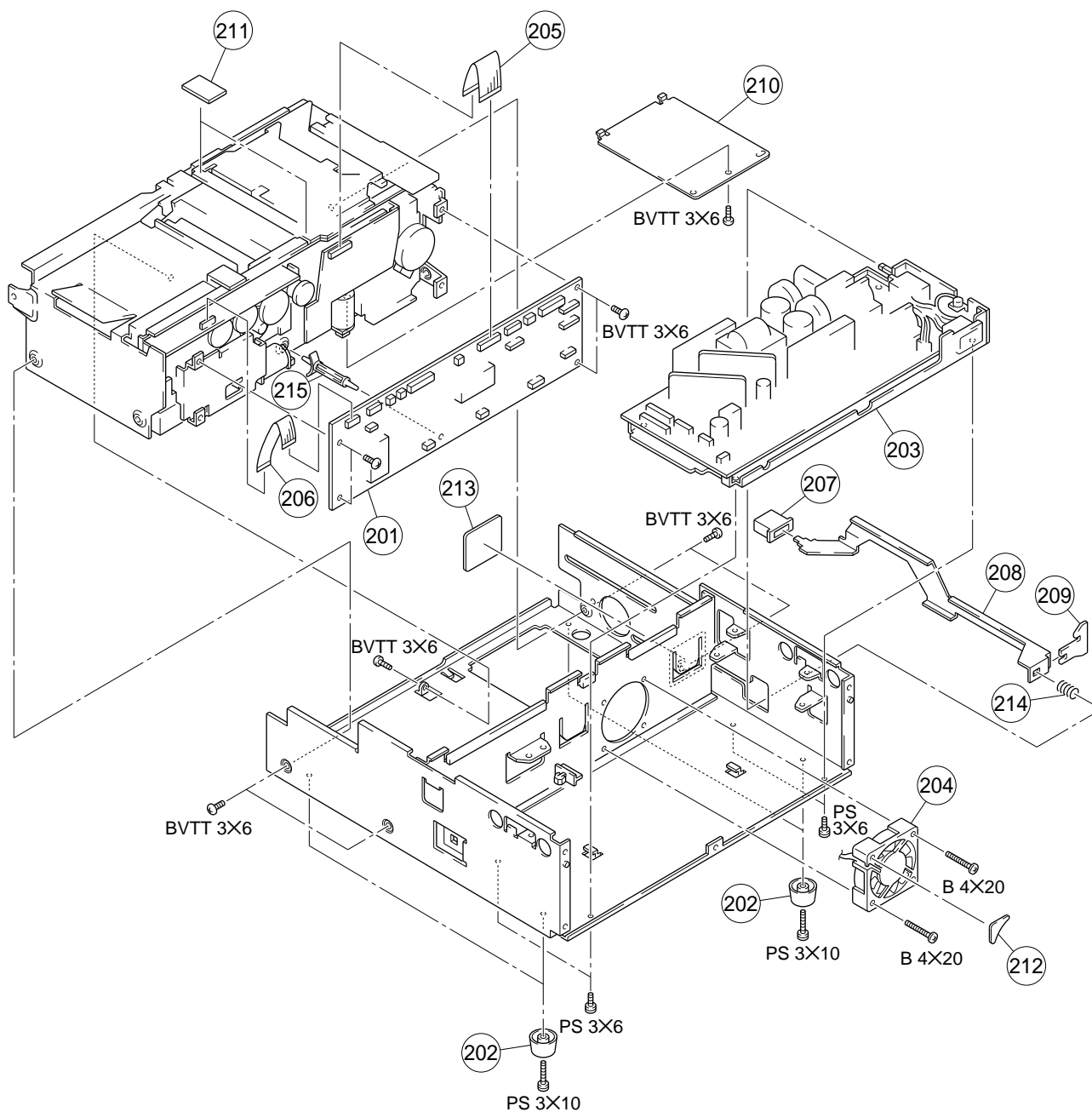
| No. | Part No. | SP Description |
|-----|--------------|---|
| 9 | 1-782-728-11 | s WIRE, FLAT TYPE (9-CORE) |
| 10 | 1-782-737-11 | s WIRE, FLAT TYPE (16-CORE) *1, *2, *3, *4, *5, *6, *7, *8 |
| 11 | 1-801-886-11 | s LCD MODULE *1, *2, *3, *4, *5, *6, *7, *8 |
| 12 | 3-608-956-01 | o COVER, TOP |
| 13 | 3-609-320-01 | s SPRING, COMPRESSION |
| 14 | 3-609-524-01 | s ROLLER, SUPPORT PAPER EJECT |
| 15 | 3-609-527-02 | s GUIDE, PAPER FRONT |
| 16 | 3-609-529-01 | s SPRING, ROLLER PAPER EJECT |
| 17 | 3-669-480-21 | s + PTPWH 2 |
| 18 | 3-672-115-02 | o LABEL, CAUTION *2, *6, *8, *10 |
| 19 | 3-713-790-31 | s SCREW (M2X8), TAPPING, P3 |
| 20 | 3-721-204-11 | s DAMPER |
| 21 | 3-736-779-21 | s MAGNET |
| 22 | 4-862-338-00 | s RING, STOPPER |
| 23 | 4-886-821-11 | s SCREW, M3 CASE |

NOTE : *1 For UP-2800 (J) *4 For UP-2850P (CE) *7 For UP-2950MD (J) *10 For UP-2300 (UC)
 *2 For UP-2800 (UC) *5 For UP-2900MD (J) *8 For UP-2950MD (UC) *11 For UP-2300P (CE)
 *3 For UP-2800P (CE) *6 For UP-2900MD (UC) *9 For UP-2300 (J)



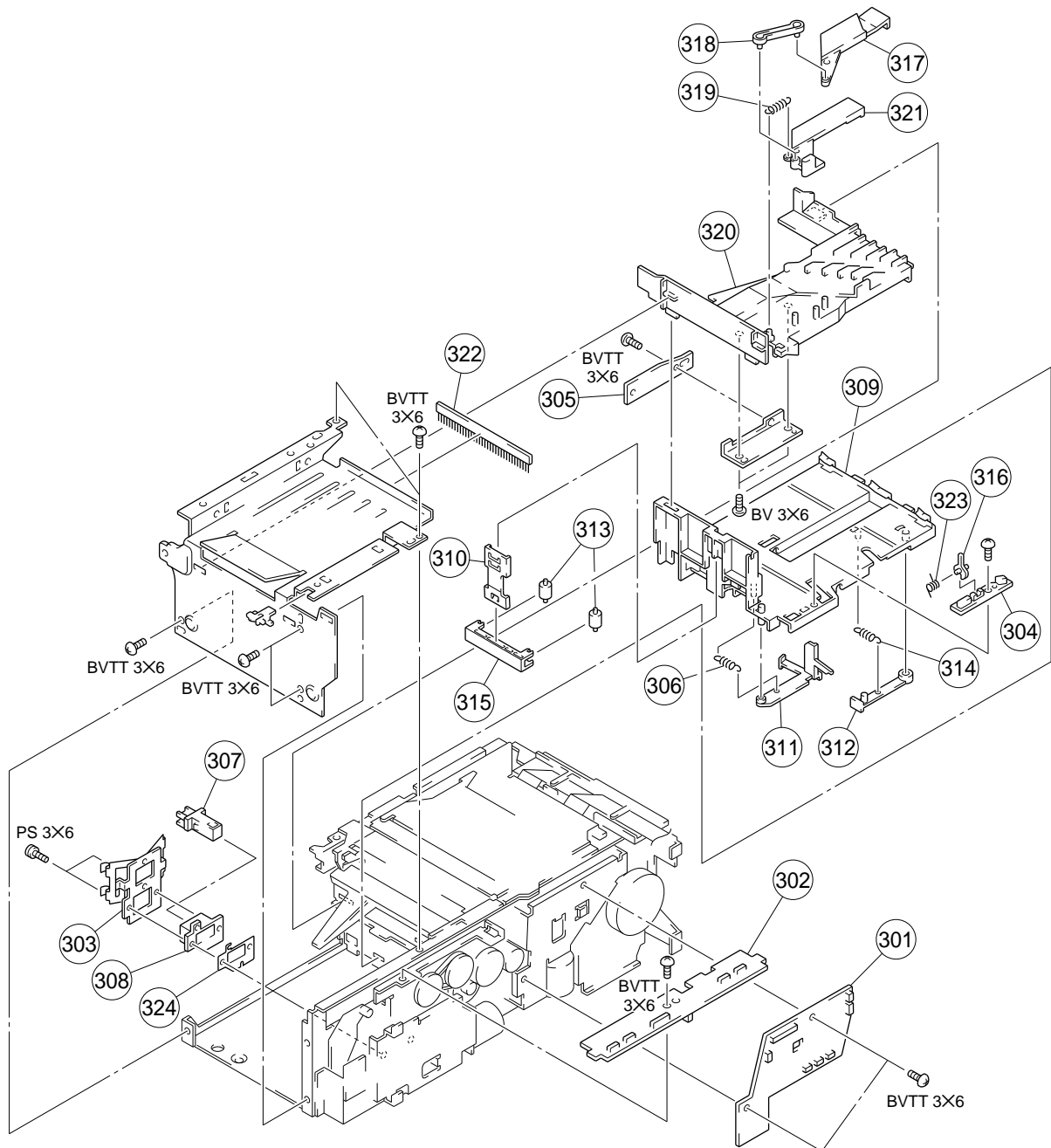
| No. | Part No. | SP Description | No. | Part No. | SP Description |
|-----|--------------|--|-----|--------------|--|
| 101 | A-8315-855-A | o MOUNTED CIRCUIT BOARD, FMY-21(N1) *1, *2, *5, *9, *10 | 105 | 1-541-684-51 | s MOTOR, DC |
| | A-8315-952-A | o MOUNTED CIRCUIT BOARD, FMY-21(P1) *3, *6, *11 | 106 | 1-782-724-11 | s WIRE, FLAT TYPE(15-CORE) |
| | A-8315-971-A | o MOUNTED CIRCUIT BOARD, FMY-21(P4) *4, *8 | 107 | 1-782-725-11 | s WIRE, FLAT TYPE(22-CORE) |
| | A-8315-976-A | o MOUNTED CIRCUIT BOARD, FMY-21(N4)*7 | 108 | 1-782-726-11 | s WIRE, FLAT TYPE(18-CORE) |
| 102 | A-8315-857-A | o MOUNTED CIRCUIT BOARD, SY-250 *1, *2, *3, *4, *6, *8 | 109 | 1-782-733-11 | s WIRE, FLAT TYPE(30-CORE) |
| | A-8315-964-A | o MOUNTED CIRCUIT BOARD, SY-250(TPCN) *5, *7 | 110 | 1-782-734-11 | s WIRE, FLAT TYPE(14-CORE) |
| | A-8316-219-A | o MOUNTED CIRCUIT BOARD, SY-250 *9, *10 | 111 | 1-782-907-11 | s CABLE, FLAT(WITH SHIELD) |
| | A-8316-235-A | o MOUNTED CIRCUIT BOARD, SY-250(XDRV)*11 | 112 | 1-782-908-11 | s CABLE, FLAT(WITH SHIELD) |
| 103 | A-8315-863-A | o MOUNTED CIRCUIT BOARD, IF-672 *1, *2, *3, *4, *5, *7 | 115 | 3-175-740-01 | o TERMINAL *3, *4, *6, *8, *11 |
| | A-8315-954-A | o MOUNTED CIRCUIT BOARD, IF-672(NP) *6, *8 | 116 | 3-179-847-01 | o LABEL(NORTHERN EUROPE), CAUTION *3, *4, *6, *8, *11 |
| | A-8316-221-A | o MOUNTED CIRCUIT BOARD, IF-710 *9, *10, *11 | 117 | 3-608-950-01 | o PANEL, REAR *1, *2, *5, *7 |
| 104 | A-8315-865-A | o MOUNTED CIRCUIT BOARD, VA-181(N) *1, *2, *5, *7 | | 3-609-310-01 | o PANEL, REAR *3, *4 |
| | A-8315-939-A | o MOUNTED CIRCUIT BOARD, VA-181(P) *3, *4 | | 3-609-319-01 | o PANEL, REAR *6, *8 |
| | A-8315-956-A | o MOUNTED CIRCUIT BOARD, VA-181(NP) *6, *8 | | 3-609-627-01 | o PANEL, REAR *11 |
| | A-8316-223-A | o MOUNTED CIRCUIT BOARD, VA-181(N3) *9, *10 | | 3-609-628-01 | o PANEL, REAR *9, *10 |
| | A-8316-237-A | o MOUNTED CIRCUIT BOARD, VA-181(P3)*11 | 118 | 3-608-999-01 | o COVER, FAN |
| | | | 119 | 3-609-736-01 | o CASE, SHIELD VA *3, *4, *6, *8, *11 |
| | | | 120 | 3-609-737-01 | o CASE, SHIELD FMY *3, *4, *6, *8, *11 |
| | | | 121 | 3-703-353-01 | o SUPPORT, PC BOARD |

SWITCHING REGULATOR



| No. | Part No. | SP Description |
|-----|----------------|---------------------------------|
| 201 | A-8315-868-A | o MOUNTED CIRCUIT BOARD, PRT-11 |
| 202 | X-3566-109-0 | s FOOT ASSY, MF |
| 203 | △ 1-468-250-11 | s REGULATOR, SWITCHING |
| △ | 1-576-232-41 | s FUSE 5A 250V) |
| 204 | 1-541-684-51 | s MOTOR, DC |
| 205 | 1-782-735-11 | s WIRE, FLAT TYPE (22 CORE) |
| 206 | 1-782-736-11 | s WIRE, FLAT TYPE (12 CORE) |
| 207 | 2-431-568-31 | s BUTTON, POWER |
| 208 | 3-608-957-01 | o ROD, POWER SWITCH |
| 209 | 3-608-958-01 | s STOPPER, ROD |

| No. | Part No. | SP Description |
|-----|--------------|-----------------------|
| 210 | 3-609-303-01 | o LID, MECHA CHASSIS |
| 211 | 3-609-678-01 | o SPACER |
| 212 | 3-609-783-01 | o STOPPER, WIRE |
| 213 | 3-611-257-01 | o SHEET, PROTECTION |
| 214 | 3-611-601-01 | s SPRING, COMPRESSION |
| 215 | 3-703-353-12 | o SUPPORTER, PC BOARD |



No. Part No. SP Description

301 A-8315-872-A o MOUNTED CIRCUIT BOARD, SE-417
 302 A-8315-874-A o MOUNTED CIRCUIT BOARD, SE-418
 303 X-3679-339-1 o SPRING ASSY, PAPER PUSH
 304 1-666-986-11 o PRINTED CIRCUIT BOARD, SE-426
 305 1-666-998-11 o PRINTED CIRCUIT BOARD, SE-430

306 3-183-184-01 s SPRING, EXTENSION
 307 3-193-308-01 s CATCHER, PUSH
 308 3-608-981-02 s HOLDER, PUSH-CATCHER
 309 3-608-983-02 s RETAINER, PAPER SUPPLY TRAY
 310 3-608-988-01 s SPRING, TRAY PUSH

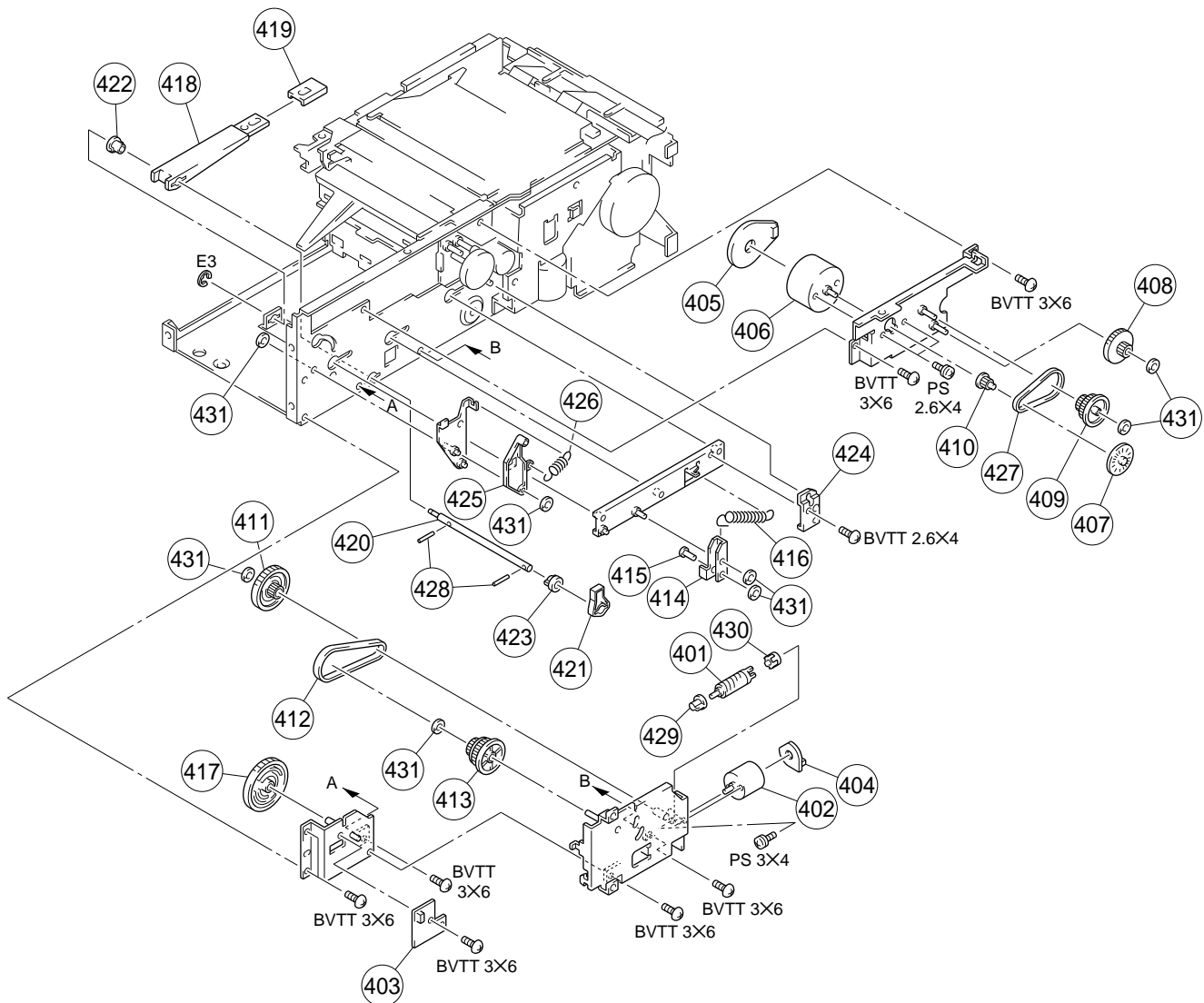
No. Part No. SP Description

311 3-608-989-02 s ARM, PAPER SENSOR
 312 3-608-996-01 s ARM
 313 3-608-997-01 s ROLLER
 314 3-608-998-01 s SPRING, EXTENSION(TRAY OUT)
 315 3-609-309-01 s HOLDER

316 3-609-353-01 s ARM, PE SENSOR
 317 3-609-509-02 s LEVER, SUPPORT PAPER EJECT
 318 3-609-510-01 s LEVER, JOINT PAPER EJECT
 319 3-609-520-01 s SPRING, EXTENSION(PE A)
 320 3-609-525-02 s BASE, PAPER EJECT

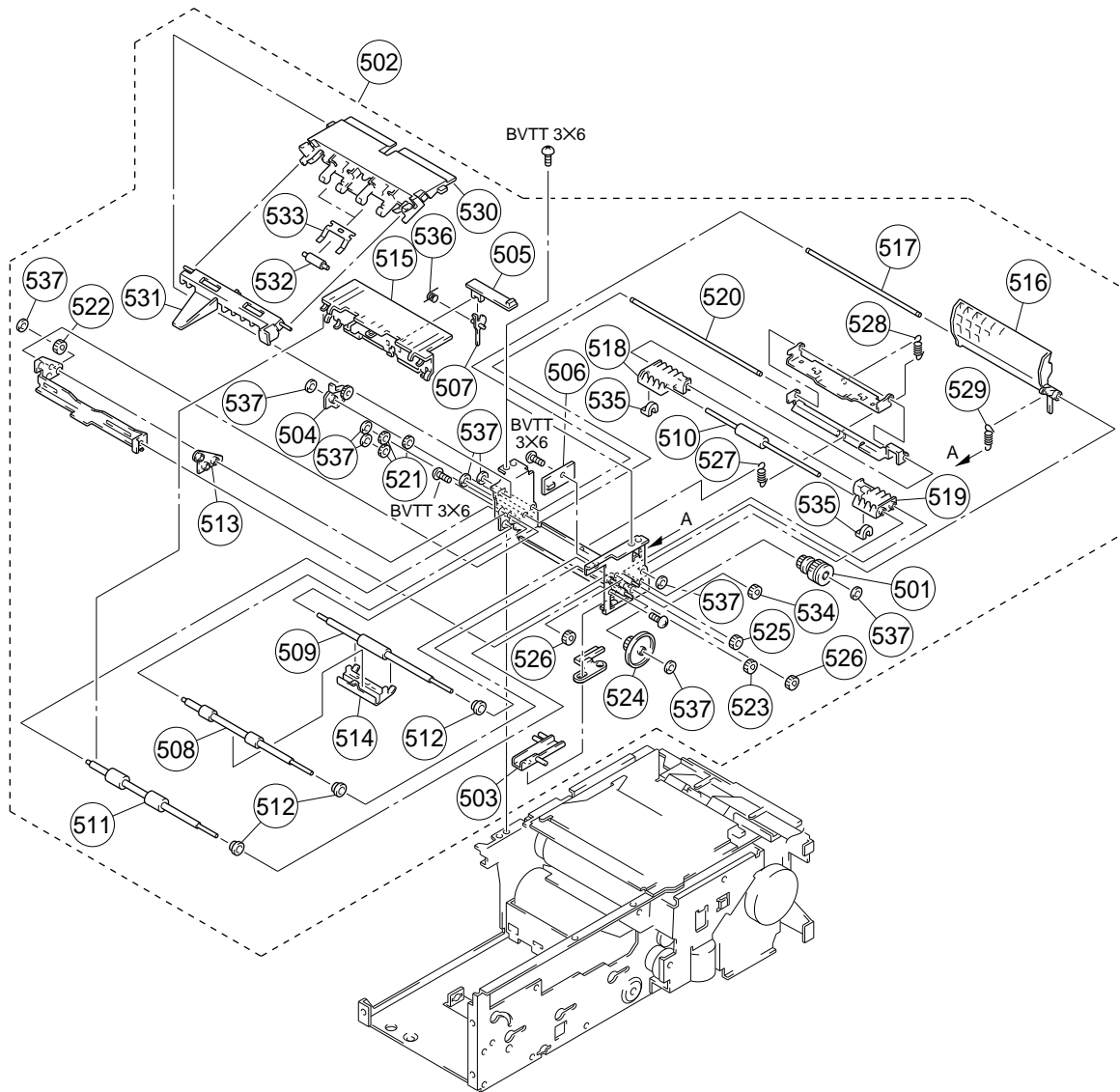
321 3-609-526-02 s LEVER, PAPER EJECT
 322 3-609-530-01 o ELIMINATOR, STATIC ELECTRICITY
 323 3-683-691-01 s SPRING, HELICAL TORSION(SENSOR)
 324 3-611-770-01 s SPASER, TRAY

MECHANISM BLOCK (2)



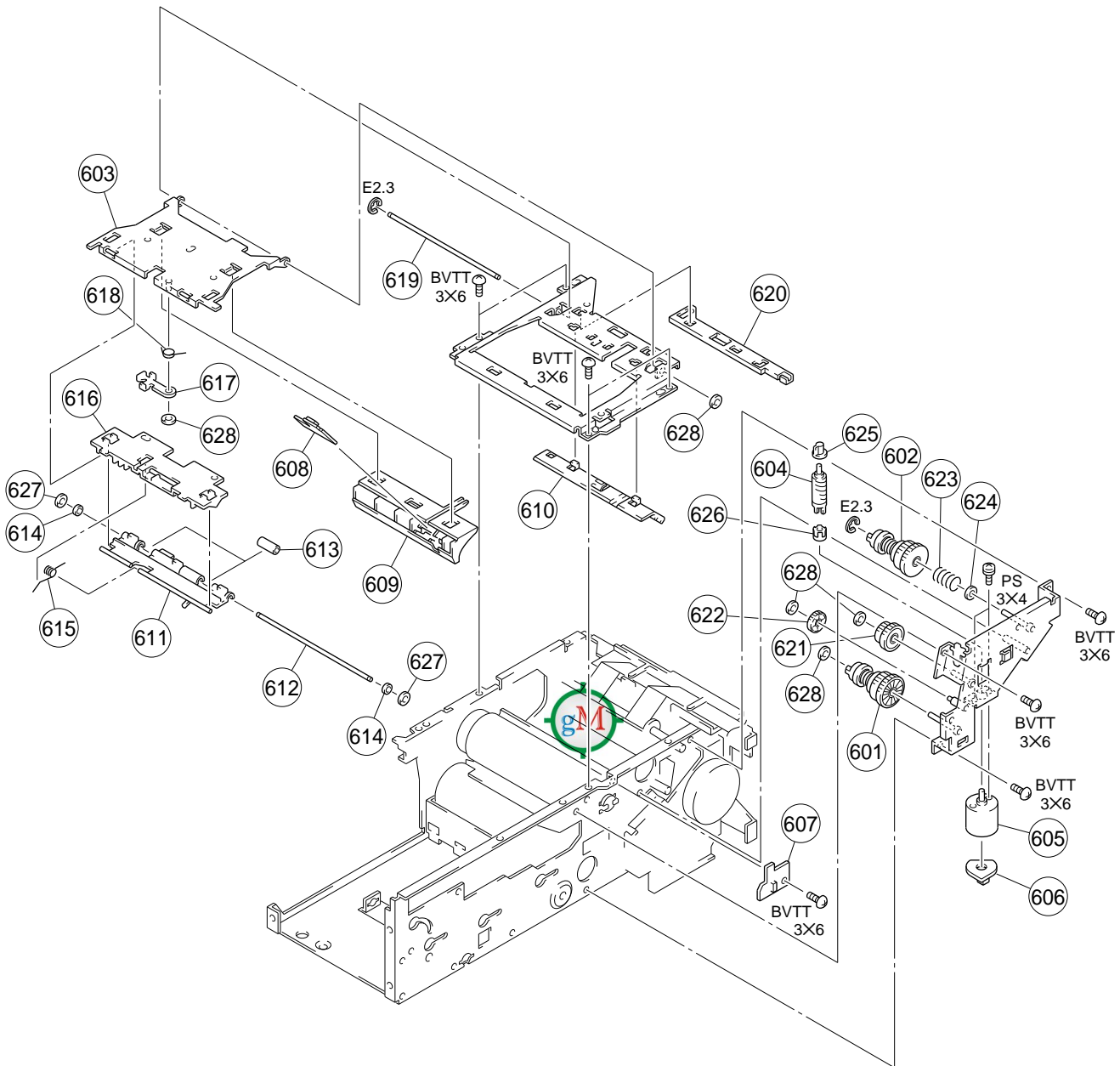
| No. | Part No. | SP Description | No. | Part No. | SP Description |
|------|--------------|---------------------------------|-----|--------------|------------------------------|
| 401 | X-3679-355-1 | s GEAR ASSY, WORM | 416 | 3-609-419-01 | s SPRING, EXTENSION |
| 402 | 1-541-309-11 | s MOTOR, L(RF-370C) | 417 | 3-609-422-02 | s CAM, TRAY MOTOR |
| 403 | 1-666-997-11 | o PRINTED CIRCUIT BOARD, SE-429 | 418 | 3-609-423-01 | o ARM, PAPER SUPPLY |
| 404 | 1-667-001-11 | o PRINTED CIRCUIT BOARD, SU-38 | 419 | 3-609-424-01 | s CAP, ARM |
| 405 | 1-667-002-11 | o PRINTED CIRCUIT BOARD, SU-39 | 420 | 3-609-425-01 | o SHAFT, PAPER SUPPLY ARM |
| *406 | 1-698-323-11 | s MOTOR, DC | 421 | 3-609-426-01 | o LEVER, PAPER SUPPLY |
| 407 | 3-173-567-02 | s FIN, FG | 422 | 3-609-427-01 | s BEARING, AS 4 |
| 408 | 3-609-398-01 | s GEAR, PU B | 423 | 3-609-428-01 | s BEARING, AS 5 |
| 409 | 3-609-399-01 | s GEAR PULLEY, PU | 424 | 3-609-429-01 | o PLATE, LINK JOINT |
| *410 | 3-609-400-02 | s PULLEY, PAPER SUPPLY MOTOR | 425 | 3-609-514-01 | s LINK B, PAPER EJECT |
| 411 | 3-609-408-02 | s WORM WHEEL, TM | 426 | 3-609-521-01 | s SPRING, EXTENSION(PE B) |
| 412 | 3-609-409-01 | s BELT, 110TN15 | 427 | 3-686-322-01 | s BELT, 72TN15 |
| 413 | 3-609-410-01 | s GEAR PULLEY, TM | 428 | 3-703-357-09 | s PIN (DIA. 1.6 SERISE) |
| 414 | 3-609-417-02 | o LINK, PAPER SUPPLY LEVER | 429 | 3-737-880-01 | s CAP, WORM SHAFT |
| 415 | 3-609-418-01 | o PIN, PS LEVER LINK | 430 | 3-737-886-01 | s TABEL, WORM |
| | | | 431 | 4-926-219-02 | s RING (DIA.2, 3), RETAINING |

*NOTE : When replacing the motor of No.406, it is necessary to replace the pulley of No.410.

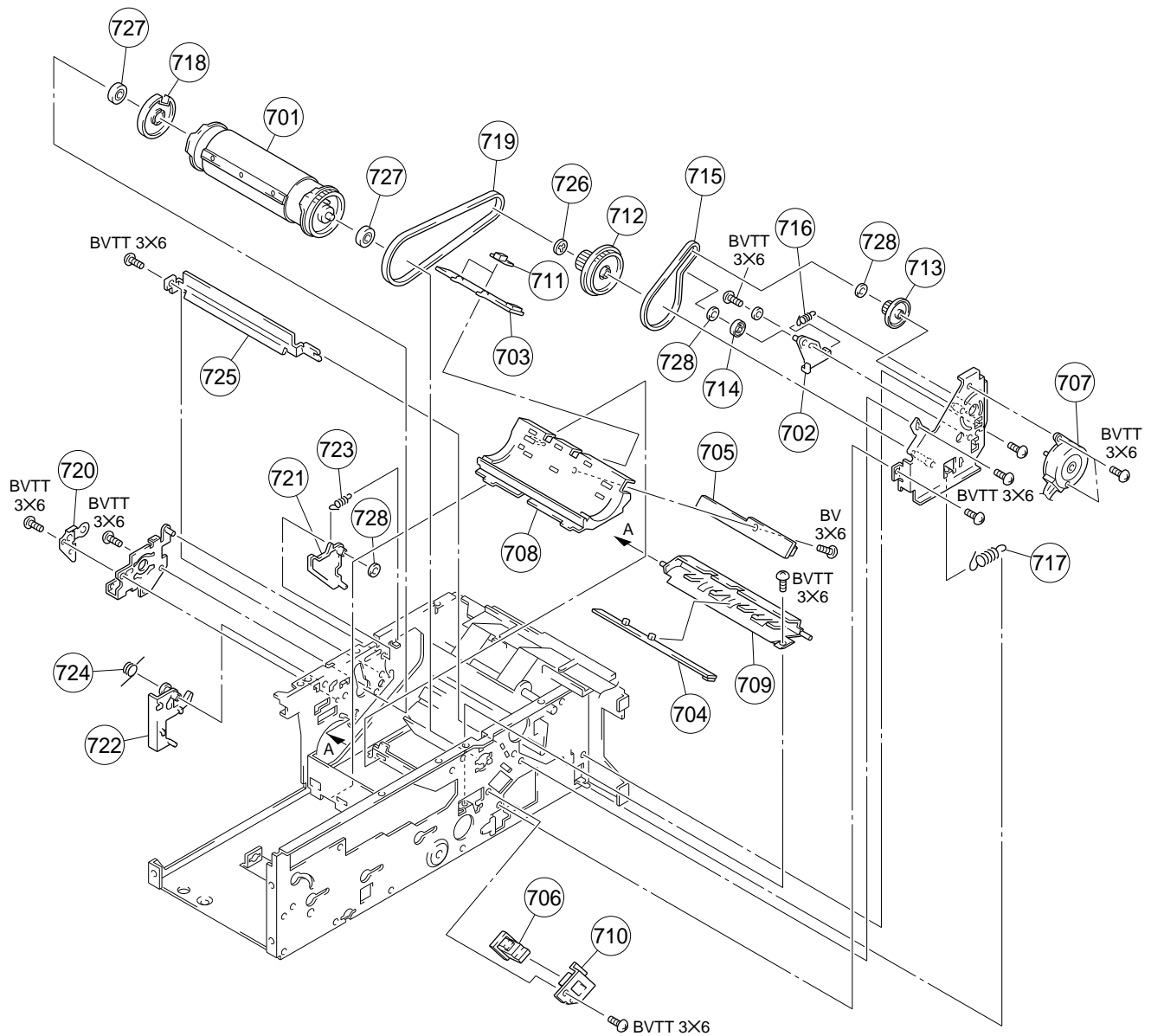


| No. | Part No. | SP Description | No. | Part No. | SP Description |
|-----|--------------|----------------------------------|-----|--------------|-----------------------------------|
| 501 | A-8278-640-A | s GEAR ASSY, P LIMITER | 521 | 3-609-384-01 | s GEAR, BC B |
| 502 | A-8315-915-A | o PREPARE BLOCK ASSY, PAPER | 522 | 3-609-385-01 | s GEAR, BC C |
| 503 | X-3679-353-1 | o LINK ASSY, PS BLOCK | 523 | 3-609-386-01 | s GEAR, PICK UP |
| 504 | X-3679-356-1 | s ARM ASSY, BC | 524 | 3-609-387-01 | s GEAR, PU A |
| 505 | 1-666-987-11 | o PRINTED CIRCUIT BOARD, SE-427 | 525 | 3-609-388-01 | s GEAR, P SUPPLY IDLER |
| 506 | 1-666-988-11 | o PRINTED CIRCUIT BOARD, SE-428 | 526 | 3-609-389-01 | s GEAR, SEPARATION |
| 507 | 3-609-353-01 | s ARM, PE SENSOR | 527 | 3-609-391-01 | s SPRING, EXTENSION |
| 508 | 3-609-369-01 | s ROLLER, PICK UP | 528 | 3-609-392-01 | s SPRING, EXTENSION |
| 509 | 3-609-370-01 | s ROLLER, PAPER SUPPLY | 529 | 3-609-394-01 | s SPRING, EXTENSION |
| 510 | 3-609-371-01 | s ROLLER, PAPER SEPARATION | 530 | 3-609-500-02 | s GUIDE, PAPER EJECT |
| 511 | 3-609-372-01 | s ROLLER, PAPER EJECT | 531 | 3-609-523-01 | s FLAP, PAPER EJECT |
| 512 | 3-609-373-02 | o BEARING, ROLLER M | 532 | 3-609-524-01 | s ROLLER, SUPPORT PAPER EJECT |
| 513 | 3-609-374-01 | s BEARING, ROLLER B | 533 | 3-609-529-01 | s SPRING, ROLLER PAPER EJECT |
| 514 | 3-609-375-01 | s FLAP, PAPER RESTRAIN | 534 | 3-609-700-01 | s GEAR, PAPER SUPPLY |
| 515 | 3-609-376-01 | s GUIDE, P SUPPLY&EJECT ROLLER | 535 | 3-611-296-01 | o GUIDE, PAPER |
| 516 | 3-609-377-01 | s FLAP, PAPER LEAD | 536 | 3-683-691-01 | s SPRING, HELICAL TORSION(SENSOR) |
| 517 | 3-609-378-01 | o SHAFT, PL FLAP | 537 | 4-926-219-02 | s RING (DIA.2.3), RETAINING |
| 518 | 3-609-380-01 | s BEARING, SEPARATION ROLLER F | | | |
| 519 | 3-609-381-01 | s BEARING, SEPARATION ROLLER B | | | |
| 520 | 3-609-382-01 | o SHAFT, SEPARATION ROLLER PIVOT | | | |

MECHANISM BLOCK (4)

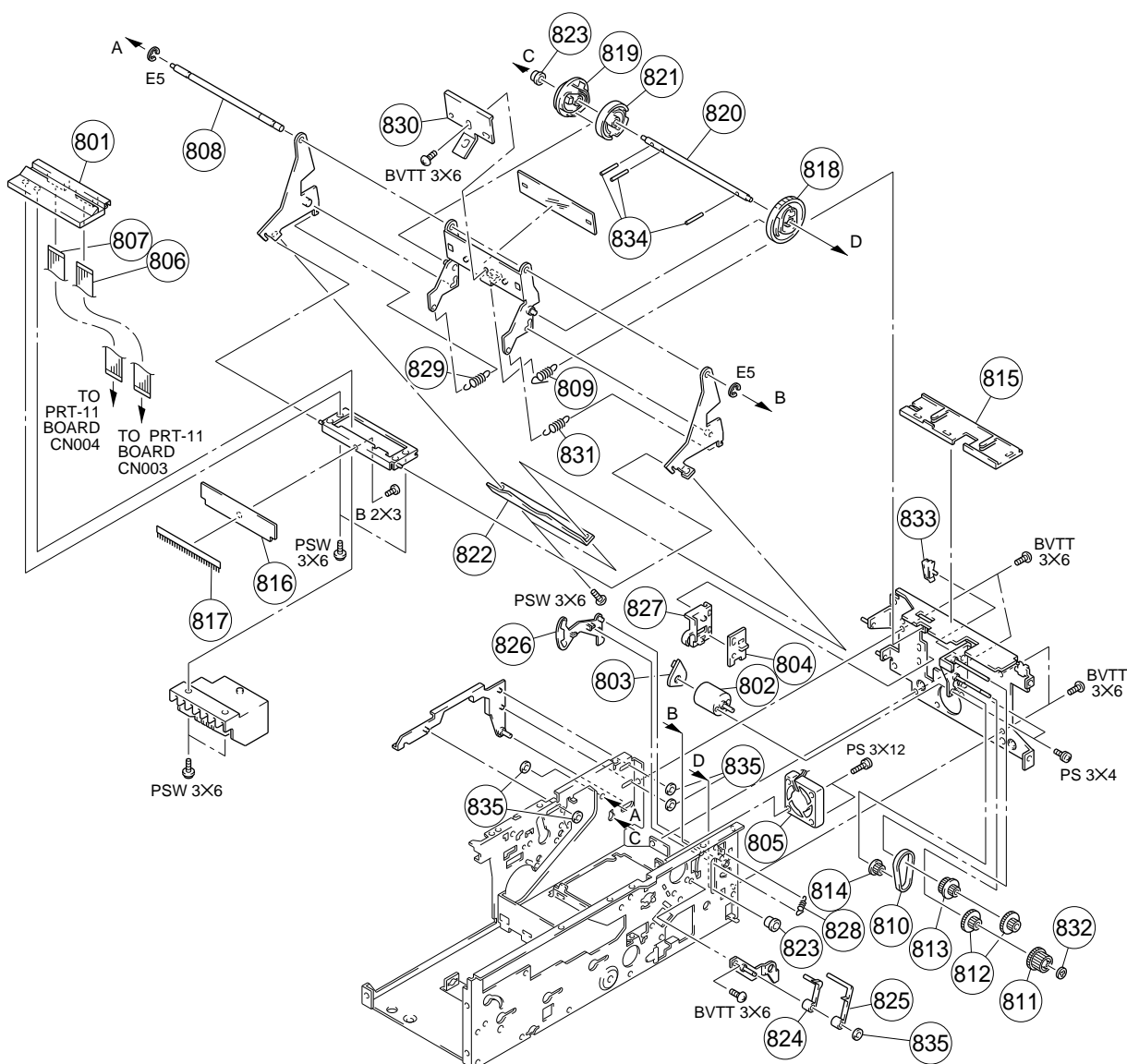


| No. | Part No. | SP Description | No. | Part No. | SP Description |
|-----|--------------|---------------------------------|-----|--------------|----------------------------------|
| 601 | A-8278-645-A | s LIMITER ASSY, RIBBON T | 616 | 3-609-457-02 | s STAY, PH ARM |
| 602 | A-8278-646-A | s LIMITER ASSY, RIBBON S | 617 | 3-609-458-01 | s LOCK, PLATEN COVER |
| 603 | X-3679-368-1 | o COVER ASSY, PLATEN | 618 | 3-609-459-01 | s SPRING, TORSION(PC LOCK) |
| 604 | X-3737-811-1 | s WORM BLOCK ASSY | 619 | 3-609-493-01 | o SHAFT, PLATEN COVER |
| 605 | 1-541-309-11 | s MOTOR, L (RF-370C) | 620 | 3-609-494-01 | s GUIDE, HEAD HARNESS |
| 606 | 1-667-000-11 | o PRINTED CIRCUIT BOARD, SU-37 | 621 | 3-609-498-01 | s WHEEL, RIBBON WORM |
| 607 | 1-667-005-11 | o PRINTED CIRCUIT BOARD, SE-419 | 622 | 3-609-499-01 | s GEAR, IDLER RIBBON |
| 608 | 1-667-007-11 | o PRINTED CIRCUIT BOARD, SE-422 | 623 | 3-609-519-01 | s SPRING, COMPRESSION (RIBBON B) |
| 609 | 3-608-985-01 | s GUIDE, RIBBON TP | 624 | 3-701-445-11 | s WASHER, 7 |
| 610 | 3-608-986-01 | s GUIDE, RIBBON T1 | 625 | 3-737-880-01 | s CAP, WORM SHAFT |
| 611 | 3-609-452-02 | s ARM, HOLD PAPER | 626 | 3-737-886-01 | s TABEL, WORM |
| 612 | 3-609-453-01 | o SHAFT, HOLD PAPER | 627 | 4-926-218-01 | s RING (DIA.2), RETAINING |
| 613 | 3-609-454-01 | s ROLLER, HOLD PAPER | 628 | 4-926-219-02 | s RING (DIA.2.3), RETAINING |
| 614 | 3-609-455-01 | s ROLLER, GUIDE HOLD PAPER | | | |
| 615 | 3-609-456-01 | s SPRING, TORSION(PAPER HOLD) | | | |



| No. | Part No. | SP Description | No. | Part No. | SP Description |
|-----|--------------|-----------------------------------|-----|--------------|-------------------------------|
| 701 | A-8315-909-A | s PLATEN BLOCK ASSY | 716 | 3-609-351-01 | s SPRING, EXTENSION |
| 702 | X-3679-359-1 | o BRACKET ASSY, IDLER PLATEN | 717 | 3-609-352-01 | s SPRING, EXTENSION |
| 703 | 1-666-983-11 | o PRINTED CIRCUIT BOARD, SE-423 | 718 | 3-609-477-01 | o CAM, TIMING CHUCK |
| 704 | 1-666-984-11 | o PRINTED CIRCUIT BOARD, SE-424 | 719 | 3-609-479-01 | s BELT, 160TN15 |
| 705 | 1-666-985-11 | o PRINTED CIRCUIT BOARD, SE-425 | 720 | 3-609-482-01 | o SPRING, EARTH PLATEN |
| 706 | 1-692-960-11 | s SWITCH, PUSH (1 KEY) | 721 | 3-609-486-01 | s LINK B, CHUCK |
| 707 | 1-698-555-21 | s MOTOR, STEPPING(PM42S-048-SNA6) | 722 | 3-609-487-01 | s STOPPER, GEAR BARCORD |
| 708 | 3-608-982-01 | o GUIDE, RIBBON U | 723 | 3-609-491-01 | s SPRING, EXTENSION |
| 709 | 3-608-984-02 | s GUIDE, RIBBON M | 724 | 3-609-492-01 | s SPRING, TORSION(BC STOPPER) |
| 710 | 3-608-987-02 | s HOLDER, RIBBON PUSH-CATCHER | 725 | 3-609-495-01 | o GUIDE, PLATEN |
| 711 | 3-608-995-01 | o COVER, SENSOR | 726 | 3-650-537-00 | o WASHER |
| 712 | 3-609-347-01 | s PULLEY, PLATEN | 727 | 3-683-140-01 | o FLANGELESS BALL BEARING |
| 713 | 3-609-348-01 | s PULLEY, PLATEN GEAR | 728 | 4-926-219-02 | s RING (DIA.2.3), RETAINING |
| 714 | 3-609-349-01 | s IDLER, PLATEN | | | |
| 715 | 3-609-350-01 | s BELT, 120TN15 | | | |

MECHANISM BLOCK (6)



| No. | Part No. | SP Description | No. | Part No. | SP Description |
|------|--------------|---------------------------------|-----|--------------|-----------------------------|
| 801 | 1-500-473-11 | s HEAD, THERMAL (LV6102) | 821 | 3-609-476-02 | s PLATE, SENSOR HEAD |
| *802 | 1-541-309-11 | s MOTOR, L(RF-370C) | 822 | 3-609-480-01 | o PRESSER, HEAD |
| 803 | 1-666-999-11 | o PRINTED CIRCUIT BOARD, SU-36 | 823 | 3-609-481-01 | s BEARING, CAM HEAD |
| 804 | 1-667-006-11 | o PRINTED CIRCUIT BOARD, SE-420 | 824 | 3-609-483-02 | s HOOK A, LIMITER |
| 805 | 1-763-007-11 | s FAN, DC | 825 | 3-609-484-01 | s HOOK B, LIMITER |
| 806 | 1-782-738-11 | s WIRE, FLAT TYPE (21 CORE) | 826 | 3-609-485-01 | s LINK, LIMITER |
| 807 | 1-782-739-11 | s WIRE, FLAT TYPE (19 CORE) | 827 | 3-609-488-01 | s HOLDER, SENSOR HEAD |
| 808 | 3-609-437-01 | o SHAFT, LINK HEAD | 828 | 3-609-496-01 | s SPRING, EXTENSION |
| 809 | 3-609-438-01 | s SPRING, EXTENSION | 829 | 3-609-763-01 | s SPRING, EXTENSION |
| 810 | 3-609-444-01 | s BELT, 79TN15 | 830 | 3-611-214-01 | s SPRING, HEAD |
| 811 | 3-609-445-01 | s GEAR A, HEAD | 831 | 3-611-226-01 | s SPRING, EXTENSION |
| 812 | 3-609-446-01 | s GEAR B, HEAD | 832 | 3-650-537-00 | o WASHER |
| 813 | 3-609-447-01 | s PULLEY, GEAR, HEAD | 833 | 3-686-073-01 | o CLAMP, HARNESS |
| *814 | 3-609-448-01 | s PULLEY, HEAD MOTOR | 834 | 3-703-357-09 | s PIN (DIA. 1.6 SERISE) |
| 815 | 3-609-449-01 | s CLAMP, HARNESS | 835 | 4-926-219-02 | s RING (DIA.2.3), RETAINING |
| 816 | 3-609-471-01 | o GUIDE, RIBBON | | | |
| 817 | 3-609-472-01 | o ELIMINATOR, STATIC ELETRICITY | | | |
| 818 | 3-609-473-02 | s CAM B, HEAD | | | |
| 819 | 3-609-474-02 | s CAM F, HEAD | | | |
| 820 | 3-609-475-01 | o SHAFT, HEAD CAM | | | |

*NOTE : When replacing the motor of No.802, it is necessary to replace the pulley of No.814.

8-3. ELECTRICAL PARTS LIST

----- CN-1520 BOARD -----

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| 1pc | A-8315-870-A | o MOUNTED CIRCUIT BOARD, CN-1520 [for UP-2800/2800P/2850P/2900MD/2950MD] |
| C1001 | 1-163-121-00 | s CERAMIC, CHIP 150PF 5% 50V |
| CN101 | 1-770-699-11 | s CONNECTOR, FFC/FPC 16P |
| R1001 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| W1 | 1-782-742-11 | s WIRE, JUMPER (HIGH WINDING) |

----- FMY-21 BOARD -----

Ref. No.
or Q'ty Part No. SP Description

NOTE: *1 For UP-2800(J) *7 For UP-2950(J)
*2 For UP-2800(UC) *8 For UP-2950(UC)
*3 For UP-2800P(CE) *9 For UP-2300(J)
*4 For UP-2850(CE) *10 For UP-2300(UC)
*5 For UP-2900(J) *11 For UP-2300P(CE)
*6 For UP-2900(UC)

| | | |
|-----|--------------|--|
| 1pc | A-8315-855-A | o MOUNTED CIRCUIT BOARD, FMY-21(N1) [for *1,*2,*5,*9,*10] |
| 1pc | A-8315-952-A | o MOUNTED CIRCUIT BOARD, FMY-21(P1) [for *3,*6,*11] |
| 1pc | A-8315-971-A | o MOUNTED CIRCUIT BOARD, FMY-21(P4) [for *4,*8] |
| 1pc | A-8315-976-A | o MOUNTED CIRCUIT BOARD, FMY-21(N4) [for *7] |

| | | |
|-------|--------------|--------------------------------|
| C1001 | 1-126-204-11 | s ELECT 47uF 20% 16V |
| C1002 | 1-126-204-11 | s ELECT 47uF 20% 16V |
| C1003 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1004 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1005 | 1-126-204-11 | s ELECT 47uF 20% 16V |

| | | |
|-------|--------------|--------------------------------|
| C1006 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |
| C1007 | 1-162-915-11 | s CERAMIC, CHIP 10PF 0.5PF 50V |
| C1008 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1009 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1010 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |

| | | |
|-------|--------------|--------------------------------|
| C1011 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1012 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1013 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1014 | 1-126-204-11 | s ELECT 47uF 20% 16V |
| C1015 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |

| | | |
|-------|--------------|--------------------------------|
| C1016 | 1-162-915-11 | s CERAMIC, CHIP 10PF 0.5PF 50V |
| C1017 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1018 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1019 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1020 | 1-164-156-11 | s CERAMIC 0.1uF 25V |

| | | |
|-------|--------------|--------------------------------|
| C1021 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1022 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1023 | 1-126-204-11 | s ELECT 47uF 20% 16V |
| C1024 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |
| C1025 | 1-162-915-11 | s CERAMIC, CHIP 10PF 0.5PF 50V |

| | | |
|-------|--------------|--------------------------------|
| C1026 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1027 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1028 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1029 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1030 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |

| | | |
|-------|--------------|-----------------------|
| C1031 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1032 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1033 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1034 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1035 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |

| | | |
|-------|--------------|--------------------------------|
| C1036 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1037 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1038 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C1039 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1040 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |

| | | |
|-------|--------------|--------------------------------|
| C1041 | 1-162-970-11 | s CERAMIC, CHIP 0.01uF 10% 25V |
| C1042 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C2001 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C2002 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C2003 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |

(FMY-21 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| C2004 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C2005 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2006 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2007 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C2008 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C2009 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C2010 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2011 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2012 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C2013 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2016 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |
| C2017 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2018 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2019 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |
| C2020 | 1-126-205-11 | s ELECT 47uF 20% 6.3V |
| C2021 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2022 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2023 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2024 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2025 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2026 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2027 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2028 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C2029 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3001 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C3002 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3003 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C3004 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3005 | 1-162-964-11 | s CERAMIC 0.001uF 10% 50V |
| C3006 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C3007 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3008 | 1-162-915-11 | s CERAMIC, CHIP 10PF 0.5PF 50V |
| C3009 | 1-162-915-11 | s CERAMIC, CHIP 10PF 0.5PF 50V |
| C3010 | 1-162-964-11 | s CERAMIC 0.001uF 10% 50V |
| C3011 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3012 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3013 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C3014 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3017 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3018 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3019 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3025 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3029 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3030 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3032 | 1-162-964-11 | s CERAMIC 0.001uF 10% 50V |
| C3034 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3035 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3036 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3037 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3038 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C3039 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3040 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3041 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3042 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3043 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3044 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3045 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3046 | 1-162-927-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C3047 | 1-126-393-11 | s ELECT 33uF 20% 10V |

(FMY-21 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------|
| C3048 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C4001 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C4002 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C4003 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C4004 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C4005 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C4006 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5001 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5002 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5003 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5004 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5005 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5006 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5007 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5008 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5009 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5010 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5011 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5012 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5013 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5014 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5015 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5016 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5017 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5018 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5019 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5020 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5021 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5022 | 1-126-393-11 | s ELECT 33uF 20% 10V |
| C5023 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| C5024 | 1-164-156-11 | s CERAMIC 0.1uF 25V |
| CN1001 | 1-778-331-11 | s CONNECTOR, FFC/FPC 16P |
| CN1002 | 1-774-287-11 | s CONNECTOR, FFC/FPC 22P |
| CN2001 | 1-779-993-11 | s PIN, CONNECTOR 5P |
| CN3001 | 1-774-771-11 | s CONNECTOR, FFC/FPC 14P |
| CN3002 | 1-779-936-11 | s CONNECTOR, FFC/FPC 18P |
| CNI103 | 1-526-660-21 | o SOCKET, IC 32P |
| IC103 | 8-759-479-39 | o IC MX27C1000-FMY21V1.00 |
| IC1001 | 8-752-337-04 | s IC CXD1176Q |
| IC1002 | 8-752-337-04 | s IC CXD1176Q |
| IC1003 | 8-752-337-04 | s IC CXD1176Q |
| IC1005 | 8-752-338-46 | s IC CXD1178Q |
| IC2001 | 8-759-926-77 | s IC SN74HC541ANS |
| IC2002 | 8-759-927-29 | s IC SN74HC004ANS |
| IC2003 | 8-759-473-67 | s IC PQ3RF33 |
| IC2004 | 8-759-423-44 | s IC MC74F04MEL |
| IC2005 | 8-759-926-52 | s IC SN74HC257ANS |
| IC2006 | 8-759-287-50 | s IC CXD8932Q |
| IC2007 | 8-759-284-24 | s IC MC74F74M-EL |
| IC2008 | 8-759-035-90 | s IC SC7502FEL |
| IC2009 | 8-759-297-58 | s IC DS1000Z-75 |
| IC2010 | 8-759-297-60 | s IC DS1000Z-75 |
| IC2011 | 8-759-284-24 | s IC MC74F74M-EL |
| IC2012 | 8-759-297-58 | s IC DS1000Z-75 |
| IC2013 | 8-759-284-24 | s IC MC74F74M-EL |
| IC3002 | 8-759-925-90 | s IC SN74HC74ANS |
| IC3003 | 8-759-925-85 | s IC SN74HC32ANS |

(FMY-21 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| IC3005 | 8-759-926-77 | s IC SN74HC541ANS |
| IC3006 | 8-759-473-64 | s IC HD6433040S-A00F |
| IC3008 | 8-759-925-76 | s IC SN74HC08NS |
| IC3010 | 8-759-926-11 | s IC SN74HC138ANS |
| IC3011 | 8-759-925-74 | s IC SN74HC04ANS |
| IC3012 | 8-759-194-80 | s IC CXD8869Q |
| IC3013 | 8-759-194-80 | s IC CXD8869Q |
| IC3017 | 8-759-479-12 | o IC MX27C4000MC-12-UP28S |
| IC3018 | 8-759-479-11 | o IC MX27C4000MC-12-UP28M |
| IC3019 | 8-759-926-82 | s IC SN74HC574ANS |
| IC3020 | 8-759-926-82 | s IC SN74HC574ANS |
| IC3021 | 8-759-193-17 | s IC CXD8868Q |
| IC4001 | 8-759-473-65 | s IC CXD8665Q |
| IC5001 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*7,*8] |
| IC5002 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*7,*8] |
| IC5003 | 8-759-473-66 | s IC HM51W4265CLTT-6 |
| IC5004 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*8] |
| IC5005 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*7,*8] |
| IC5006 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*7,*8] |
| IC5007 | 8-759-473-66 | s IC HM51W4265CLTT-6 [for *3,*4,*6,*7,*8,*11] |
| IC5008 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *3,*6,*11] |
| IC5009 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*8] |
| IC5010 | 8-759-473-66 | s IC HM51W4265CLTT-6 |
| IC5011 | 8-759-473-66 | s IC HM51W4265CLTT-6 [for *3,*4,*6,*7,*8,*11] |
| IC5012 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*7,*8] |
| IC5013 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*8] |
| IC5014 | 8-759-473-66 | s IC HM51W4265CLTT-6[for *4,*8] |
| IC5015 | 8-759-473-66 | s IC HM51W4265CLTT-6 |
| L1001 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L1002 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L2001 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L2002 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L2003 | 1-424-653-11 | s COIL, CHOKE 10uH |
| Q1001 - Q1006 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q1007 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| R1001 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1002 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R1003 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1004 | 1-218-285-11 | s METAL, CHIP 75 5% 1/16W |
| R1006 | 1-216-805-11 | s METAL, CHIP 47 5% 1/16W |
| R1007 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R1008 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1009 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R1010 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1011 | 1-218-285-11 | s METAL, CHIP 75 5% 1/16W |
| R1013 | 1-216-805-11 | s METAL, CHIP 47 5% 1/16W |
| R1014 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1015 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R1016 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |

(FMY-21 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------|
| R1017 | 1-218-285-11 | s METAL, CHIP 75 5% 1/16W |
| R1019 | 1-216-805-11 | s METAL, CHIP 47 5% 1/16W |
| R1020 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1021 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1022 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1023 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1024 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1025 | 1-216-809-11 | s METAL, CHIP 100 5% 1/16W |
| R1026 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1027 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1028 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1029 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R1030 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R1031 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R1032 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R1035 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R1036 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R1062 | 1-216-827-11 | s METAL, CHIP 3.3K 5% 1/16W |
| R1063 | 1-216-821-11 | s METAL, CHIP 1K 5% 1/16W |
| R1064 | 1-216-814-11 | s METAL, CHIP 270 5% 1/16W |
| R1065 | 1-216-816-11 | s METAL, CHIP 390 5% 1/16W |
| R1067 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R1072 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R1110 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R1111 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R2001 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R2002 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R2003 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R2004 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R2005 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R2006 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R2007 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R2008 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R2009 | 1-216-857-11 | s METAL, CHIP 1M 5% 1/16W |
| R2010 | 1-216-817-11 | s METAL, CHIP 470 5% 1/16W |
| R2019 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R2020 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R2021 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R2032 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R2033 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3002 - R3015 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3016 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3017 - R3028 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3028 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3031 - R3053 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3054 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3055 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3056 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3057 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3058 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3060 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3061 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3062 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3063 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3064 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |

(FMY-21 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R3065 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3066 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3067 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3068 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3069 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| | | |
| R3070 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3071 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3072 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3073 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3074 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| | | |
| R3075 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3076 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3078 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3079 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3080 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| | | |
| R3081 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3082 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3083 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3084 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3085 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| | | |
| R3086 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3087 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3088 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| R3089 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3090 | 1-216-803-11 | s METAL, CHIP 33 5% 1/16W |
| | | |
| R3091 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3092 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3093 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3094 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| R3095 | 1-216-833-11 | s METAL, CHIP 10K 5% 1/16W |
| | | |
| R3097 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3103 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3107 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3117 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R3118 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| | | |
| R4001 | 1-216-797-11 | s METAL, CHIP 10 5% 1/16W |
| R4002 | 1-216-797-11 | s METAL, CHIP 10 5% 1/16W |
| R4008 - R4116 | 1-216-797-11 | s METAL, CHIP 10 5% 1/16W |
| | | |
| R4117 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R4122 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R5001 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W [for *4, *7, *8] |
| R5002 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W [for *1, *2, *3, *5, *6, *9, *10, *11] |
| R5003 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W [for *3, *4, *6, *8, *11] |
| | | |
| R5004 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W [for *1, *2, *5, *7, *9, *10] |
| R5005 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R5006 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| R5007 - R5135 | 1-216-797-11 | s METAL, CHIP 10 5% 1/16W |
| | | |
| S101 | 1-570-909-11 | s SWITCH, PUSH |
| | | |
| X1001 | 1-767-664-21 | s CRYSTAL, 15.75032Hz |
| X3001 | 1-760-558-11 | o CRYSTAL, 14.7456MHz |

IF-672 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|--|--------------|--|
| NOTE: *1 For UP-2800(J) *5 For UP-2900(J) | | |
| *2 For UP-2800(UC) *6 For UP-2900(UC) | | |
| *3 For UP-2800P(CE) *7 For UP-2950(J) | | |
| *4 For UP-2850(CE) *8 For UP-2950(UC) | | |
| | | |
| 1pc | A-8315-863-A | o MOUNTED CIRCUIT BOARD, IF-672 [for *1,*2,*3,*4,*5,*7] |
| 1pc | A-8315-954-A | o MOUNTED CIRCUIT BOARD, IF-672(NP) [for *6,*8] |
| | | |
| CN101 | 1-774-288-11 | s CONNECTOR, FFC/FPC 22P |
| CN201 | 1-774-757-11 | s CONNECTOR, FFC/FPC 15P |
| | | |
| D101 - D128 | 8-719-422-97 | s DIODE MA8091-M |
| | | |
| D201 | 8-719-801-78 | s DIODE 1SS184 |
| | | |
| J101 | 1-770-081-12 | s CONNECTOR, BNC |
| J105 | 1-573-590-13 | s CONNECTOR, 4P |
| J106 | 1-770-080-12 | s CONNECTOR, BNC |
| J201 | 1-770-081-12 | s CONNECTOR, BNC |
| J205 | 1-573-590-13 | s CONNECTOR, 4P |
| | | |
| J206 | 1-770-080-12 | s CONNECTOR, BNC |
| | | |
| Q201 | 1-801-806-11 | s TRANSISTOR DTC144EKA |
| Q202 | 8-729-140-75 | s TRANSISTOR 2SD999-CLCK |
| | | |
| R101 - R114 | 1-208-762-11 | s METAL,CHIP 270K 0.50% 1/10W |
| R201 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R202 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [For *6,*8] |
| | | |
| S201 | 1-572-624-11 | s SWITCHI, SLIDE[For *6,*8] |
| | | |
| RL101 - RL107 | 1-515-622-11 | s RELAY |

 IF-710 BOARD[FOR UP-2300/2300P]

| Ref. No. or Q'ty | Part No. | SP Description |
|--------------------------|--------------|---|
| 1pc | A-8316-221-A | o MOUNTED CIRCUIT BOARD, IF-710 [for UP-2300/UP-2300P] |
| C109 - C114, C123 - C128 | 8-719-422-97 | s DIODE MA8091-M |
| CN101 | 1-774-288-11 | s CONNECTOR, FFC/FPC 22P |
| CN201 | 1-774-757-11 | s CONNECTOR, FFC/FPC 15P |
| D201 | 8-719-801-78 | s DIODE 1SS184 |
| J105 | 1-573-590-13 | s CONNECTOR, 4P |
| J106 | 1-770-080-12 | s CONNECTOR, BNC 1P |
| J205 | 1-573-590-13 | s CONNECTOR, 4P |
| J206 | 1-770-080-12 | s CONNECTOR, BNC 1P |
| Q201 | 1-801-806-11 | s TRANSISTOR DTC144EKA |
| Q202 | 8-729-140-75 | s TRANSISTOR 2SD999-CLCK |
| R109 - R114 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R201 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| RL105 | 1-515-622-11 | s RELAY |
| RL106 | 1-515-622-11 | s RELAY |
| RL107 | 1-515-622-11 | s RELAY |

 KY-402 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | A-8315-861-A | o MOUNTED CIRCUIT BOARD, KY-402 |
| CN1 | 1-779-934-11 | s CONNECTOR, FFC/FPC 9P |
| D1 | 8-719-041-51 | s DIODE GL1EG111 |
| S110 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S111 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S120 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S121 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S122 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S130 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S131 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S132 | 1-571-760-11 | s SWITCH, KEY BOARD |
| S133 | 1-571-760-11 | s SWITCH, KEY BOARD |

 KY-401 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | A-8315-859-A | o MOUNTED CIRCUIT BOARD, KY-401 |
| C1 | 1-110-449-11 | s ELECT, CHIP 47uF 20% 6.3V |
| CN1 | 1-770-697-11 | s CONNECTOR, FFC/FPC 14P |
| D1 | 8-719-027-38 | s DIODE PG1101W-TR |
| D2 | 8-719-951-14 | s DIODE PG1101W-TR |
| IC1 | 8-748-035-08 | s IC SBX8035-H |
| R1 | 1-216-017-91 | s METAL 47 5% 1/10W |
| S100 | 1-572-595-11 | s SWITCH, PUSH |
| S101 | 1-572-595-11 | s SWITCH, PUSH |
| S102 | 1-572-595-11 | s SWITCH, PUSH |
| S103 | 1-572-595-11 | s SWITCH, PUSH |
| S104 | 1-572-595-11 | s SWITCH, PUSH |
| S105 | 1-572-595-11 | s SWITCH, PUSH |

PRT-11 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------------|
| 1pc | A-8315-868-A | o MOUNTED CIRCUIT BOARD, PRT-11 |
| C101 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C102 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C103 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C104 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C105 | 1-128-403-11 | s ELECT 47uF 20% 35V |
| C106 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C107 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C108 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C109 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C110 | 1-128-403-11 | s ELECT 47uF 20% 35V |
| C111 - C120 | | |
| | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C121 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C122 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C123 - C131 | | |
| | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C132 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C133 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C134 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C135 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C136 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C137 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C138 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C139 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C140 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C142 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C143 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C144 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C145 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C146 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C147 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C148 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C149 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C150 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C151 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C152 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C153 | 1-128-403-11 | s ELECT 47uF 20% 35V |
| C154 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C155 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C156 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C157 | 1-128-403-11 | s ELECT 47uF 20% 35V |
| C158 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C159 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C160 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C161 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C162 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C163 | 1-128-393-11 | s ELECT 100uF 20% 10V |
| C164 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C165 | 1-128-393-11 | s ELECT 100uF 20% 10V |
| C166 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C167 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C168 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C169 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C170 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

(PRT-11 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------------|
| C171 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C172 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C173 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C174 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C176 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C177 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C178 | 1-128-397-21 | s ELECT 100uF 20% 16V |
| C201 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C202 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C203 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C204 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C205 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C207 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C208 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C209 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C210 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C211 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C212 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C213 | 1-163-235-11 | s CERAMIC, CHIP 22PF 5% 50V |
| C216 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C217 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C218 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C219 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C220 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C221 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C222 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C223 | 1-128-235-11 | s ELECT 0.47uF 20% 50V |
| C224 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C225 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C226 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C227 | 1-163-113-00 | s CERAMIC, CHIP 68PF 5% 50V |
| C228 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C229 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C230 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C231 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| CN1 | 1-564-729-11 | s PIN, CONNECTOR 13P |
| CN2 | 1-564-730-11 | o PIN, CONNECTOR 14P |
| CN3 | 1-774-333-11 | s CONNECTOR, FFC/FPC 21P |
| CN4 | 1-779-937-11 | s CONNECTOR, FFC/FPC 19P |
| CN5 | 1-779-935-11 | s CONNECTOR, FFC/FPC 9P |
| CN6 | 1-770-697-11 | s CONNECTOR, FFC/FPC 14P |
| CN7 | 1-770-697-11 | s CONNECTOR, FFC/FPC 14P |
| CN8 | 1-770-705-11 | s CONNECTOR, FFC/FPC 22P |
| CN9 | 1-770-695-11 | s CONNECTOR, FFC/FPC 12P |
| CN10 | 1-774-771-11 | s CONNECTOR, FFC/FPC 14P |
| CN11 | 1-770-470-21 | o CONNECTOR (PC BOARD) 6P |
| CN12 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| CN13 | 1-770-469-21 | o CONNECTOR (PC BOARD) 2P |
| CN14 | 1-770-469-21 | o CONNECTOR (PC BOARD) 2P |
| CN15 | 1-573-290-21 | s PIN, CONNECTOR (1.5MM) (SMD)4P |
| CN16 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| CN17 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| CN18 | 1-580-055-21 | s PIN, CONNECTOR 2P |
| CNI117 | 1-526-660-21 | o SOCKET, IC 32P |
| CNI206 | 1-526-660-21 | o SOCKET, IC 32P |
| D101 | 8-719-200-02 | s DIODE 10E-2 |
| D102 | 8-719-200-02 | s DIODE 10E-2 |
| D104 | 8-719-200-02 | s DIODE 10E-2 |

(PRT-11 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------|
| D223 | 8-719-016-74 | s DIODE 1SS352 |
| IC101 | 8-759-322-54 | s IC SLA7024M |
| IC102 | 8-759-926-49 | s IC SN74HC245ANS |
| IC103 | 8-759-926-49 | s IC SN74HC245ANS |
| IC104 | 8-759-926-49 | s IC SN74HC245ANS |
| IC105 | 8-759-157-19 | s IC MB3863PF-G-BND |
| IC106 | 8-759-100-95 | s IC UPC324G2 |
| IC107 | 8-759-178-20 | s IC M62354FP |
| IC108 | 8-759-926-49 | s IC SN74HC245ANS |
| IC109 | 8-759-925-76 | s IC SN74HC08NS |
| IC110 | 8-759-157-19 | s IC MB3863PF-G-BND |
| IC111 | 8-759-926-21 | s IC SN74HC161ANS |
| IC112 | 8-759-254-94 | s IC HD6413378F10 |
| IC113 | 8-759-925-80 | s IC SN74HC14ANS |
| IC114 | 8-759-925-90 | s IC SN74HC74ANS |
| IC115 | 8-759-148-14 | s IC UPD71055GB-3B4 |
| IC117 | 8-759-479-40 | o IC MX27C1000-PRT11V1.0 |
| IC118 | 8-759-983-69 | s IC LM358PS |
| IC119 | 8-759-926-11 | s IC SN74HC138ANS |
| IC201 | 8-759-925-76 | s IC SN74HC08NS |
| IC202 | 8-759-925-85 | s IC SN74HC32ANS |
| IC204 | 8-759-926-82 | s IC SN74HC574ANS |
| IC206 | 8-759-479-41 | o IC MX27C2000DC-12-GAM |
| IC207 | 8-759-479-07 | s IC CXD8653Q |
| IC208 | 8-759-476-50 | s IC CXD8636Q |
| IC209 | 8-759-925-72 | s IC SN74HC02ANS |
| IC210 | 8-759-189-55 | s IC CXD8865R |
| L101 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L103 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L105 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L107 - L125 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L127 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L129 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L131 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L133 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L134 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L135 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L137 | 1-408-397-00 | s INDUCTOR 1uH |
| L141 | 1-408-397-00 | s INDUCTOR 1uH |
| L143 | 1-408-397-00 | s INDUCTOR 1uH |
| L144 | 1-408-397-00 | s INDUCTOR 1uH |
| L145 | 1-408-397-00 | s INDUCTOR 1uH |
| L146 | 1-408-397-00 | s INDUCTOR 1uH |
| L201 - L212 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L214 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L215 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L216 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L217 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L219 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L221 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L222 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L225 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L226 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L229 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |

(PRT-11 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------|
| L230 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L233 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L236 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L240 | 1-543-948-11 | s BEAD, FERRITE (CHIP) |
| L241 - L245 | 1-408-397-00 | s INDUCTOR 1uH |
| Q101 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q102 | 8-729-140-75 | s TRANSISTOR 2SD999-CLCK |
| Q103 | 8-729-101-07 | s TRANSISTOR 2SB798 |
| Q104 | 8-729-017-80 | s TRANSISTOR 2SD992-Z |
| Q105 | 8-729-114-48 | s TRANSISTOR 2SB962-Z-P |
| Q107 | 8-729-114-48 | s TRANSISTOR 2SB962-Z-P |
| Q110 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q111 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| R101 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R102 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R103 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R104 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R105 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R106 - R115 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R116 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R117 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R118 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R119 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R120 | 1-216-373-11 | s METAL 2.2 5% 2W |
| R121 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R122 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R123 | 1-216-373-11 | s METAL 2.2 5% 2W |
| R124 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R125 - R132 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R133 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R134 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R135 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R136 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R137 - R146 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R147 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R148 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R149 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R150 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R151 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R152 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R153 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R154 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R155 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R156 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R157 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R158 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R159 | 1-216-037-00 | s METAL, CHIP 330 5% 1/10W |
| R160 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R161 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R162 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R163 | 1-215-881-11 | s METAL 15 5% 2W |
| R165 | 1-216-309-00 | s METAL 5.6 5% 1/10W |

(PRT-11 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| R166 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R167 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R170 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R171 | 1-216-033-00 | s METAL, CHIP 220 5% 1/10W |
| R172 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R173 | 1-216-033-00 | s METAL, CHIP 220 5% 1/10W |
| R174 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R175 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R176 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R178 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R179 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R181 | 1-216-689-11 | s METAL, CHIP 39K 0.5% 1/10W |
| R182 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R183 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W |
| R190 | 1-216-689-11 | s METAL, CHIP 39K 0.5% 1/10W |
| R191 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R192 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W |
| R196 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R197 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R198 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R201 - R209 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R210 - R218 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R219 | 1-216-121-91 | s METAL 1M 5% 1/10W |
| R220 - R227 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R228 - R240 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R241 | 1-216-295-11 | s CHIP, CONDUCTOR 0 |
| R243 - R269 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R270 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R271 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R272 | 1-216-009-00 | s METAL, CHIP 22 5% 1/10W |
| R273 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R274 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R275 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R276 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R277 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R278 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R279 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R280 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R281 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R291 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R292 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R1000 | 1-215-881-11 | s METAL 15 5% 2W |
| S1 | 1-570-909-11 | s SWITCH, PUSH |
| TH1 | 1-810-075-11 | s THERMISTOR, NTC |
| X101 | 1-579-996-21 | s VIBRATOR, CERAMIC 20.0MHz |
| X201 | 1-579-996-21 | s VIBRATOR, CERAMIC 20.0MHz |
| X202 | 1-760-590-21 | s OSCILLATOR, CRYSTAL 26.513MHz |

SE-417 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| lpc | A-8315-872-A | o MOUNTED CIRCUIT BOARD, SE-417 |
| C1 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C2 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C3 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C4 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C5 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C6 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C7 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C8 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C9 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C10 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C11 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C12 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C13 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C14 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C15 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C16 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C17 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C18 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C19 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C20 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C21 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C22 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C23 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| CN1 | 1-580-057-11 | s PIN, CONNECTOR 4P |
| CN2 | 1-580-055-21 | s PIN, CONNECTOR 2P |
| CN3 | 1-569-775-21 | s PIN, CONNECTOR 5P |
| CN4 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| CN5 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| CN6 | 1-569-775-21 | s PIN, CONNECTOR 5P |
| CN7 | 1-770-705-11 | s CONNECTOR, FFC/FPC 22P |
| IC1 | 8-759-354-27 | s IC ST24C01FM6TR |
| IC2 | 8-759-926-49 | s IC SN74HC245ANS |
| IC5 | 8-759-100-95 | s IC UPC324G2 |
| IC6 | 8-759-100-95 | s IC UPC324G2 |
| IC7 | 8-759-381-55 | s IC UPC339G2-E2 |
| JR1 - JR58 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| PH1 | 8-749-923-97 | s PHOTO INTERRUPTER GP2S40 |
| Q1 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q2 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q3 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q4 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| R1 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R2 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R3 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R4 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R5 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R6 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R7 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R8 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R9 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R10 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R11 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R12 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R13 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |

(SE-417 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------|
| R14 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R15 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R16 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R17 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R18 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R19 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R20 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R21 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R22 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R23 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R24 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R25 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R26 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R27 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R28 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R29 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R30 | 1-216-105-91 | s METAL, CHIP 220K 5% 1/10W |
| R31 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R32 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R33 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R34 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R35 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R36 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R37 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R38 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R39 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R40 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R41 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R42 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R43 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R44 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R45 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R46 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R47 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R48 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R49 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |

SE-418 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|----------------------------------|
| 1pc | A-8315-874-A | o MOUNTED CIRCUIT BOARD, SE-418 |
| C101 - C107 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C108 | 1-104-608-11 | s ELECT 33uF 20% 6.3V |
| C109 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| CN101 | 1-691-550-11 | s CONNECTOR (1.5MM)(SMD) 3P MALE |
| CN102 | 1-691-550-11 | s CONNECTOR (1.5MM)(SMD) 3P MALE |
| CN103 | 1-573-768-21 | s CONNECTOR (1.5MM)(SMD) 5P MALE |
| CN104 | 1-573-768-21 | s CONNECTOR (1.5MM)(SMD) 5P MALE |
| CN105 | 1-778-276-11 | s CONNECTOR, FFC/FPC 12P |
| IC101 | 8-759-926-49 | s IC SN74HC245ANS |
| JR101 - JR109 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W |
| PH101 | 8-749-010-69 | s PHOTO INTERRUPTER GP158V |
| Q101 | 8-729-101-07 | s TRANSISTOR 2SB798 |
| Q102 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| R101 - R107 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R108 - R114 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R115 - R122 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R123 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |

SE-419 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|----------------------------------|
| 1pc | 1-667-005-11 | o PRINTED CIRCUIT BOARD, SE-419 |
| CN150 | 1-573-290-21 | s PIN, CONNECTOR (1.5MM) (SMD)4P |
| PH150 | 8-719-052-69 | s DIODE RPI-352 |
| S150 | 1-571-958-11 | s SWITCH, PUSH (1 KEY) |

SE-420 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|----------------------------------|
| 1pc | 1-667-006-11 | o PRINTED CIRCUIT BOARD, SE-420 |
| CN201 | 1-573-768-21 | s CONNECTOR (1.5MM)(SMD) 5P MALE |
| PH201 | 8-719-052-69 | s DIODE RPI-352 |
| PH202 | 8-719-052-69 | s DIODE RPI-352 |

SE-422 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-667-007-11 | o PRINTED CIRCUIT BOARD, SE-422 |
| CN250 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| PH250 | 8-749-923-97 | s PHOTO INTERRUPTER GP2S40 |

SE-423 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-983-11 | o PRINTED CIRCUIT BOARD, SE-423 |
| CN301 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| D301 | 8-719-938-07 | s DIODE GL480 |
| D302 | 8-719-938-07 | s DIODE GL480 |

SE-424 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-984-11 | o PRINTED CIRCUIT BOARD, SE-424 |
| CN350 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| Q350 | 8-729-930-95 | s PHOTO TRANSISTOR PT480F |
| Q351 | 8-729-930-95 | s PHOTO TRANSISTOR PT480F |

SE-425 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-985-11 | o PRINTED CIRCUIT BOARD, SE-425 |
| CN401 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| CN402 | 1-569-775-21 | s PIN, CONNECTOR 5P |
| PH401 | 8-749-923-97 | s PHOTO INTERRUPTER GP2S40 |

SE-426 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-986-11 | o PRINTED CIRCUIT BOARD, SE-426 |
| CN450 | 1-564-707-11 | o CONNECTOR, 5P, MALE |
| PH450 | 8-749-010-50 | s PHOTO INTERRUPTER RPI-5100 |
| PH451 | 8-719-052-69 | s DIODE RPI-352 |

SE-427 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|----------------------------------|
| 1pc | 1-666-987-11 | o PRINTED CIRCUIT BOARD, SE-427 |
| CN501 | 1-691-550-11 | s CONNECTOR (1.5MM)(SMD) 3P MALE |
| PH501 | 8-749-010-50 | s PHOTO INTERRUPTER RPI-5100 |

SE-428 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-988-11 | o PRINTED CIRCUIT BOARD, SE-428 |
| CN550 | 1-580-056-21 | o PIN, CONNECTOR 3P |
| PH550 | 8-719-939-05 | s PHOTOINTERRUPTER GP-1S54 |

SE-429 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-997-11 | o PRINTED CIRCUIT BOARD, SE-429 |
| CN601 | 1-569-775-21 | s PIN, CONNECTOR 5P |
| PH601 | 8-719-052-69 | s DIODE RPI-352 |
| PH602 | 8-719-052-69 | s DIODE RPI-352 |

SE-430 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| 1pc | 1-666-998-11 | o PRINTED CIRCUIT BOARD, SE-430 |
| CN650 | 1-580-057-11 | s PIN, CONNECTOR 4P |
| CN651 | 1-778-273-11 | s CONNECTOR, 15P FEMALE |

SU-36 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| 1pc | 1-666-999-11 | o PRINTED CIRCUIT BOARD, SU-36 |
| CN750 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| M750 | 1-541-309-11 | s MOTOR, L (RF-370C) |

SU-37 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| 1pc | 1-667-000-11 | o PRINTED CIRCUIT BOARD, SU-37 |
| CN801 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| M801 | 1-541-309-11 | s MOTOR, L (RF-370C) |

SU-38 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| 1pc | 1-667-001-11 | o PRINTED CIRCUIT BOARD, SU-38 |
| CN850 | 1-770-160-21 | s PIN, CONNECTOR 2P |
| M850 | 1-541-309-11 | s MOTOR, L (RF-370C) |

SU-39 BOARD

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| 1pc | 1-667-002-11 | o PRINTED CIRCUIT BOARD, SU-39 |
| CN901 | 1-564-718-11 | s CONNECTOR, 2P, MALE |
| M901 | 1-698-323-11 | s MOTOR, DC |

SY-250 BOARD

Ref. No.
or Q'ty Part No. SP Description

NOTE: *1 For UP-2800(J) *7 For UP-2950(J)
 *2 For UP-2800(UC) *8 For UP-2950(UC)
 *3 For UP-2800P(CE) *9 For UP-2300(J)
 *4 For UP-2850(CE) *10 For UP-2300(UC)
 *5 For UP-2900(J) *11 For UP-2300P(CE)
 *6 For UP-2900(UC)

1pc A-8315-964-A o MOUNTED CIRCUIT BOARD,
 SY-250(TPCN)[for *5,*7]
1pc A-8315-857-A o MOUNTED CIRCUIT BOARD, SY-250
 [for *1,*2,*3,*4,*6,*8]
1pc A-8316-219-A o MOUNTED CIRCUIT BOARD, SY-250
 [for *9*10]
1pc A-8316-235-A o MOUNTED CIRCUIT BOARD,
 SY-250(XDRV)[for *11]

C100 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
C101 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
C102 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C120 1-163-275-11 s CERAMIC 0.001uF 5% 50V
C121 1-163-275-11 s CERAMIC 0.001uF 5% 50V

C150 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C151 1-163-231-11 s CERAMIC 15PF 5% 50V
C160 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
C190 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C191 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C280 - C287
 1-163-038-91 s CERAMIC 0.1uF 25V
C500 1-163-038-91 s CERAMIC 0.1uF 25V [for *11]
C600 - C608
 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V

C620 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C621 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C622 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C623 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C640 1-163-038-91 s CERAMIC 0.1uF 25V

C641 1-163-038-91 s CERAMIC 0.1uF 25V
C642 1-163-038-91 s CERAMIC 0.1uF 25V
C643 1-163-038-91 s CERAMIC 0.1uF 25V
C644 1-163-038-91 s CERAMIC 0.1uF 25V
C645 1-163-038-91 s CERAMIC 0.1uF 25V

C646 1-163-038-91 s CERAMIC 0.1uF 25V
C660 1-126-393-11 s ELECT 33uF 20% 10V
C661 1-126-393-11 s ELECT 33uF 20% 10V
C662 1-126-393-11 s ELECT 33uF 20% 10V
C663 1-126-393-11 s ELECT 33uF 20% 10V

C664 1-126-393-11 s ELECT 33uF 20% 10V
C680 1-163-038-91 s CERAMIC 0.1uF 25V
C681 1-163-038-91 s CERAMIC 0.1uF 25V
C682 1-163-038-91 s CERAMIC 0.1uF 25V
C683 1-163-038-91 s CERAMIC 0.1uF 25V

C684 1-163-038-91 s CERAMIC 0.1uF 25V
C901 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C953 1-163-038-91 s CERAMIC 0.1uF 25V
C954 1-128-401-11 s ELECT 100uF 20% 25V

CN1 1-565-316-21 s SOCKET, CONNECTOR 25P
CN1001 1-778-331-11 s CONNECTOR, FFC/FPC 16P
 [for *1,*2,*3,*4,*5,*6,*7,*8]
CN1002 1-774-771-11 s CONNECTOR, FFC/FPC 14P
CN1003 1-774-771-11 s CONNECTOR, FFC/FPC 14P
CN1004 1-774-770-11 s CONNECTOR, FFC/FPC 30P

(SY-250 BOARD)

Ref. No.
or Q'ty Part No. SP Description

CN1005 1-779-936-11 s CONNECTOR, FFC/FPC 18P
CN1006 1-691-550-11 s CONNECTOR (1.5MM)(SMD) 3P MALE
 [for *11]

CNI200 1-526-660-21 o SOCKET, IC 32P

D110 8-719-801-78 s DIODE 1SS184
D111 8-719-801-78 s DIODE 1SS184
D112 8-719-801-78 s DIODE 1SS184
D113 8-719-801-78 s DIODE 1SS184
D190 8-719-801-78 s DIODE 1SS184

D600 8-719-800-76 s DIODE 1SS226
D601 8-719-800-76 s DIODE 1SS226

FL804 - L809
 1-543-960-21 s BEAD, FERRITE (CHIP)

FL820 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL821 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL822 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL823 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL824 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL825 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL826 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL827 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL828 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]
FL829 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL830 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*6,*8, *5,*7]
FL831 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*6,*8, *5,*7]

FL840 - FL851
 1-543-960-21 s BEAD, FERRITE (CHIP)

FL860 1-543-960-21 s BEAD, FERRITE (CHIP)
FL861 1-543-960-21 s BEAD, FERRITE (CHIP)
FL862 1-543-960-21 s BEAD, FERRITE (CHIP)
FL900 1-543-960-21 s BEAD, FERRITE (CHIP)
FL901 1-543-960-21 s BEAD, FERRITE (CHIP)

IC100 8-759-473-64 s IC HD6433040S-A00F
IC101 8-759-926-11 s IC SN74HC138ANS
IC110 8-759-926-11 s IC SN74HC138ANS
IC150 8-759-473-63 s IC UPD6466GS-502-E2
IC190 8-759-518-38 s IC PST572CMT

IC200 8-759-479-42 o IC MX27C2000DC-12-SY250-V1.00
 [for *1,*2,*3,*4,*5,*6,*7,*8]
IC200 8-759-482-55 o IC MX27C2000DC-12-SY250-V1.00
 [for *9,*10,*11]

IC220 8-759-055-21 s IC HN58C66SFP25TZ
IC230 8-759-926-49 s IC SN74HC245ANS
 [for *1,*2,*3,*4,*5,*6,*7,*8]
IC250 8-759-346-05 s IC UPD71051GU-10-E2

IC270 8-759-926-49 s IC SN74HC245ANS
IC280 8-759-252-59 s IC MAX202CSE-TE2

(SY-250 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|---------------|---|
| IC281 | 8-759-252-59 | s IC MAX202CSE-TE2 |
| IC300 | 8-759-983-69 | s IC LM358PS |
| IC301 | 8-759-988-13 | s IC LM393PS |
| IC302 | 8-759-988-13 | s IC LM393PS |
| IC400 | 8-759-925-72 | s IC SN74HC02ANS |
| IC401 | 8-759-925-80 | s IC SN74HC14ANS |
| IC402 | 8-759-925-82 | s IC SN74HC21NS |
| IC403 | 8-759-926-49 | s IC SN74HC245ANS |
| IC404 | 8-759-926-49 | s IC SN74HC245ANS |
| IC500 | 8-759-518-85 | s IC S16MD01 [for *11] |
| J1 | 1-770-206-11 | o JACK, MICRO |
| J2 | 1-507-967-11 | s JACK |
| L1 | 1-408-397-00 | s INDUCTOR 1uH |
| L150 | 1-410-388-31 | s INDUCTOR, CHIP 39uH |
| L800 | 1-408-397-00 | s INDUCTOR 1uH |
| L801 | 1-408-397-00 | s INDUCTOR 1uH |
| L802 | 1-408-397-00 | s INDUCTOR 1uH |
| L803 | 1-408-397-00 | s INDUCTOR 1uH |
| L900 | 1-408-397-00 | s INDUCTOR 1uH |
| L901 | 1-408-397-00 | s INDUCTOR 1uH |
| L902 | 1-408-397-00 | s INDUCTOR 1uH |
| L903 | 1-408-397-00 | s INDUCTOR 1uH |
| L951 | 1-424-675-11 | s COIL, CHOKO 33uH |
| L952 | 1-424-675-11 | s COIL, CHOKO 33uH |
| Q140 | 8-729-027-38 | s TRANSISTOR DTA144EKA-T146 [for *5,*7] |
| Q141 | 8-729-900-53 | s TRANSISTOR DTC114EK [for *5,*7] |
| Q160 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q170 | 8-729-027-56 | s TRANSISTOR DTC143TKA |
| Q171 | 8-729-027-56 | s TRANSISTOR DTC143TKA |
| Q180 | 8-729-027-56 | s TRANSISTOR DTC143TKA |
| R101 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R103 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W |
| R110 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R111 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R112 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R113 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R120 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R121 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R122 | 1-216-109-00 | s METAL, CHIP 330K 5% 1/10W |
| R123 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R124 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R125 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R126 | 1-216-101-00 | s METAL, CHIP 150K 5% 1/10W |
| R127 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R128 | 1-216-017-91 | s METAL 47 5% 1/10W |
| R130 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R131 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R132 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R133 | 1-216-105-91 | s METAL, CHIP 220K 5% 1/10W |
| R134 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R135 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R136 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W [for *9,*10,*11] |
| R140 | 11-216-295-11 | s METAL, CHIP 0 5% 1/10W |

(SY-250 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R141 | 1-216-033-00 | s METAL, CHIP 220 5% 1/10W [for *5,*7] |
| R142 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W [for *5,*7] |
| R160 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R161 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R162 | 1-216-031-00 | s METAL, CHIP 180 5% 1/10W |
| R163 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R170 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R171 | 1-216-033-00 | s METAL, CHIP 220 5% 1/10W |
| R180 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R181 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R190 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R191 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R192 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *1,*2,*3,*4,*5,*6,*7,*8,*9,*10] |
| R192 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for *11] |
| R200 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W |
| R220 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W |
| R270 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R271 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R272 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R273 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R274 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R275 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R276 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R277 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R500 | 1-216-033-00 | s METAL, CHIP 220 5% 1/10W [for *11] |
| R600 - R608 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R620 - R627 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R684 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R700 - R707 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R720 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R721 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R722 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R723 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R724 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R740 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R741 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R742 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R743 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R744 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R760 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R780 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R820 - R827 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| S140 | 1-571-275-31 | s SWITCH, SLIDE [for *5,*7] |
| SP180 | 1-529-080-11 | s BUZZER, PIEZOELECTRIC |
| X100 | 1-760-592-21 | s VIBRATOR, CRYSTAL (SMD) 9.8304MHz |

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------|----------------|
|---------------------|----------|----------------|

| | | | |
|------|--------------|---|----------------------------|
| C149 | 1-126-392-11 | s | ELECT, CHIP 100uF 20% 6.3V |
| C150 | 1-163-038-91 | s | CERAMIC 0.1uF 25V |

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------|----------------|
|---------------------|----------|----------------|

C319 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
[for *3,*4]

(VA-181 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|-----------------------------------|
| C320 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C321 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C322 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C323 | 1-164-346-11 | s CERAMIC 1uF 16V |
| C324 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C325 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C326 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C327 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C328 | 1-126-395-11 | s ELECT, CHIP 22uF 20% 16V |
| C329 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C330 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C331 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C332 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C333 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C334 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C335 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C336 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C337 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C338 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C339 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C340 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C341 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C342 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C343 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C344 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C345 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C346 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C347 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C348 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C349 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C350 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C351 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C352 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C353 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C354 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C355 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C356 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C357 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C358 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C359 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C360 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C401 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C402 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C403 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C404 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C405 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C406 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C407 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C408 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C409 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C410 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C411 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C412 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C413 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C414 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C415 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C416 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C417 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C418 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|------------------------------|
| C419 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C420 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C421 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C422 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C423 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C425 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C426 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C427 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C428 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C429 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C430 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C431 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C432 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C434 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C435 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C436 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C437 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C438 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C439 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C440 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C441 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C443 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C444 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C445 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C446 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C447 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C448 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C449 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C450 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C451 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C452 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C453 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C454 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C456 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C457 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C458 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C459 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C460 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C601 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C602 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C603 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C604 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C605 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C606 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C607 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C608 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C609 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C610 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C611 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C612 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C613 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C614 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C615 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C616 | 1-163-263-11 | s CERAMIC, CHIP 330PF 5% 50V |
| C617 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C618 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C619 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C620 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C621 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| C622 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C623 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C624 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C625 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C626 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C627 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C628 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C629 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C630 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C631 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C632 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C633 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C634 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C635 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C636 | 1-163-017-00 | s CERAMIC, CHIP 0.0047uF 5% 50V |
| C637 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C638 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C639 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C640 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C641 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V |
| C642 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C643 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C644 | 1-163-091-00 | s CERAMIC, CHIP 8PF 50V [for *1,*2,*5,*6,*7,*8] |
| C645 | 1-163-091-00 | s CERAMIC, CHIP 8PF 50V [for *3,*4,*6,*8] |
| C646 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C647 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C648 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C649 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C650 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C651 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C652 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C653 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for *3,*4] |
| C654 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for *1,*2,*5,*7] |
| C655 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C656 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C657 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C658 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C659 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C660 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C661 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C662 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C663 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C664 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C665 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C666 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C667 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C668 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C669 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C670 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C671 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C672 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C673 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C674 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C675 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C676 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| C677 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C678 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C679 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C680 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C698 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C699 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C701 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for *3,*4,*6,*8] |
| C702 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V [for *3,*4,*6,*8] |
| C703 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for *3,*4,*6,*8] |
| C704 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V [for *3,*4,*6,*8] |
| C705 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for *3,*4,*6,*8] |
| C706 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C707 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for *1,*2,*5,*6,*7,*8] |
| C708 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V [for *1,*2,*5,*6,*7,*8] |
| C709 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for *1,*2,*5,*6,*7,*8] |
| C710 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for *1,*2,*5,*6,*7,*8] |
| C711 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V |
| C712 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C713 | 1-163-241-11 | s CERAMIC, CHIP 39PF 5% 50V [for *3,*4,*6,*8] |
| C714 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V |
| C715 | 1-163-241-11 | s CERAMIC, CHIP 39PF 5% 50V [for *3,*4,*6,*8] |
| C717 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for *3,*4,*6,*8] |
| C718 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V [for *3,*4,*6,*8] |
| C719 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V [for *3,*4,*6,*8] |
| C720 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for *3,*4,*6,*8] |
| C721 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C801 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C802 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C803 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C804 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C805 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C806 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C807 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C808 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C809 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C810 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C811 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C812 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C813 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C814 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C815 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C816 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C817 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C818 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C819 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C820 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|------------------------------|
| C821 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C822 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C823 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C824 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C825 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C826 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C827 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C828 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C829 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C830 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C831 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C832 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C833 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C834 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C835 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C836 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C837 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C838 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C839 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C901 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C902 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C903 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C904 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C905 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C906 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C907 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C908 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C909 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C910 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C911 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C912 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C913 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C914 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C915 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C916 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C917 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C937 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C938 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C939 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C940 | 1-163-231-11 | s CERAMIC 15PF 5% 50V |
| C941 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C942 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C943 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C944 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C945 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C946 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C947 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C948 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C949 | 1-163-231-11 | s CERAMIC 15PF 5% 50V |
| C950 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C951 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C952 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C953 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C954 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C955 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C956 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C957 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C958 | 1-163-231-11 | s CERAMIC 15PF 5% 50V |
| C959 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| C960 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C961 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C962 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C963 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C964 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C965 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C966 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C967 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C968 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C969 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C970 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C971 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C972 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C973 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C974 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| CN101 | 1-774-287-11 | s CONNECTOR, FFC/FPC 22P |
| CN102 | 1-779-992-11 | s PIN, CONNECTOR 8P |
| CN103 | 1-778-331-11 | s CONNECTOR, FFC/FPC 16P |
| CN104 | 1-774-770-11 | s CONNECTOR, FFC/FPC 30P |
| CN105 | 1-774-287-11 | s CONNECTOR, FFC/FPC 22P |
| CN106 | 1-774-767-11 | s CONNECTOR, FFC/FPC 15P |
| CV301 | 1-141-368-11 | s CAP, CHIP TRIMMER [for *3,*4,*6,*8] |
| CV302 | 1-141-368-11 | s CAP, CHIP TRIMMER [for *1,*2,*5,*6,*7,*8] |
| CV601 | 1-141-311-11 | s VAR, TRIMMER 20PF [for *1,*2,*5,*6,*7,*8] |
| CV602 | 1-141-311-11 | s VAR, TRIMMER 20PF [for *3,*4,*6,*8] |
| CV701 | 1-141-311-11 | s VAR, TRIMMER 20PF [for *3,*4,*6,*8] |
| CV702 | 1-141-311-11 | s VAR, TRIMMER 20PF [for *3,*4,*6,*8] |
| CV703 | 1-141-311-11 | s VAR, TRIMMER 20PF [for *1,*2,*5,*6,*7,*8] |
| D101 | 8-719-800-76 | s DIODE 1SS226 |
| D201 | 8-719-800-76 | s DIODE 1SS226 |
| D202 | 8-719-800-76 | s DIODE 1SS226 |
| D401 | 8-719-976-96 | s DIODE DTZ4.7C |
| D701 | 8-713-102-23 | s DIODE 1T362A-M20E-T8A [for *3,*4,*6,*8] |
| DL101 | 1-415-761-21 | s DELAY LINE, LC |
| DL102 | 1-415-760-21 | s DELAY LINE, LC |
| DL301 | 1-415-313-00 | s DELAY LINE (1H) [for *3,*4,*6,*8] |
| FL201 | 1-239-563-11 | s FILTER, LOW PASS |
| FL202 | 1-239-563-11 | s FILTER, LOW PASS |
| FL203 | 1-239-563-11 | s FILTER, LOW PASS |
| FL301 | 1-239-564-11 | s FILTER, LOW-PASS |
| FL302 | 1-239-564-11 | s FILTER, LOW-PASS |
| FL303 | 1-239-564-11 | s FILTER, LOW-PASS |
| IC101 | 8-759-038-15 | s IC MC74HC4538AF |
| IC102 | 8-759-710-86 | s IC NJM2233BM |
| IC103 | 8-759-710-86 | s IC NJM2233BM |
| IC104 | 8-759-157-17 | s IC PQ05SZ1U |
| IC105 | 8-759-157-17 | s IC PQ05SZ1U |
| IC106 | 8-759-168-19 | s IC TA78L09F-TE12L |
| IC201 | 8-752-352-20 | s IC CXD2023Q [for *1,*2,*5,*7] |
| IC201 | 8-752-372-78 | s IC CXD2024AQ [for *3,*4,*6,*8] |

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| Ref. No. or Q'ty | Part No. | SP | Description |
|---------------------|--------------|----|---------------------|
| IC301 | 8-752-058-64 | s | IC CXA1213BS |
| IC302 | 8-759-062-66 | s | IC TC7S66F |
| IC303 | 8-759-062-66 | s | IC TC7S66F |
| IC304 | 8-759-983-69 | s | IC LM358PS |
| IC305 | 8-759-710-86 | s | IC NJM2233BM |
| IC306 | 8-759-710-86 | s | IC NJM2233BM |
| IC307 | 8-759-710-86 | s | IC NJM2233BM |
| IC308 | 8-759-262-00 | s | IC MC14576CF |
| IC401 | 8-759-062-66 | s | IC TC7S66F |
| IC402 | 8-759-062-66 | s | IC TC7S66F |
| IC403 | 8-759-062-66 | s | IC TC7S66F |
| IC404 | 8-752-053-21 | s | IC CXA1211M |
| IC405 | 8-752-053-21 | s | IC CXA1211M |
| IC406 | 8-752-053-21 | s | IC CXA1211M |
| IC407 | 8-759-983-69 | s | IC LM358PS |
| IC408 | 8-759-242-64 | s | IC TC4W53F |
| IC409 | 8-759-983-69 | s | IC LM358PS |
| IC601 | 8-759-038-15 | s | IC MC74HC4538AF |
| IC602 | 8-759-710-12 | s | IC NJM2230M |
| IC603 | 8-759-242-64 | s | IC TC4W53F |
| IC604 | 8-759-038-15 | s | IC MC74HC4538AF |
| IC605 | 8-759-242-64 | s | IC TC4W53F |
| IC606 | 8-752-039-91 | s | IC CXA1437Q |
| IC607 | 8-759-101-12 | s | IC UPC311G2 |
| IC608 | 8-752-062-80 | s | IC CXA1686M |
| IC609 | 8-759-929-26 | s | IC TL431CPS |
| IC610 | 8-759-100-95 | s | IC UPC324G2 |
| IC611 | 8-759-635-27 | s | IC M62352GP |
| IC613 | 8-759-926-52 | s | IC SN74HC257ANS |
| IC614 | 8-759-242-76 | s | IC TC7W08F |
| IC615 | 8-759-242-64 | s | IC TC4W53F |
| IC616 | 8-759-387-75 | s | IC TC7W00F(Te12R) |
| IC701 | 8-752-341-58 | s | IC CXD1217Q |
| IC702 | 8-759-242-64 | s | IC TC4W53F |
| IC801 | 8-752-053-21 | s | IC CXA1211M |
| IC802 | 8-752-053-21 | s | IC CXA1211M |
| IC803 | 8-759-242-76 | s | IC TC7W08F |
| IC804 | 8-759-278-95 | s | IC BA7606F |
| IC901 | 8-752-068-43 | s | IC CXA1645M |
| L101 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L102 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L103 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L104 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L105 | 1-424-653-11 | s | COIL, CHOKE 10uH |
| L106 | 1-424-653-11 | s | COIL, CHOKE 10uH |
| L201 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L301 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L302 | 1-410-380-31 | s | INDUCTOR CHIP 8.2uH |
| | | | [for *3,*4,*6,*8] |
| L303 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L304 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L305 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L601 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L602 | 1-410-656-11 | s | INDUCTOR CHIP 150uH |
| L603 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L604 | 1-410-387-11 | s | INDUCTOR CHIP 33uH |
| L701 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L702 | 1-410-377-31 | s | INDUCTOR CHIP 4.7uH |
| | | | [for *3,*4,*6,*8] |

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| Ref. No. or Q'ty | Part No. | SP | Description |
|---------------------|--------------|----|-------------------------|
| L703 | 1-410-377-31 | s | INDUCTOR CHIP 4.7uH |
| | | | [for *3,*4,*6,*8] |
| L801 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L901 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| L902 | 1-410-369-11 | s | INDUCTOR CHIP 1uH |
| LV301 | 1-411-191-21 | s | COIL, VARIABLE (D.A.T) |
| | | | [for *3,*4,*6,*8] |
| Q101 | 8-729-402-81 | s | TRANSISTOR XN4501 |
| Q102 | 8-729-402-81 | s | TRANSISTOR XN4501 |
| Q103 | 8-729-402-81 | s | TRANSISTOR XN4501 |
| Q104 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q105 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q106 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q107 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q108 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q109 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q110 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q111 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q112 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q113 | 8-729-216-22 | s | TRANSISTOR 2SA1162 |
| Q201 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q202 | 8-729-402-13 | s | TRANSISTOR XN1501 |
| Q203 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q204 | 8-729-402-84 | s | TRANSISTOR XN4601 |
| Q205 | 8-729-402-84 | s | TRANSISTOR XN4601 |
| Q206 | 8-729-901-00 | s | TRANSISTOR DTC124EK |
| Q207 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q209 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q210 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q211 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q212 | 8-729-901-00 | s | TRANSISTOR DTC124EK |
| Q301 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| | | | [for *3,*4,*6,*8] |
| Q302 | 8-729-901-00 | s | TRANSISTOR DTC124EK |
| Q303 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q304 | 8-729-120-28 | s | TRANSISTOR 2SC1623-L5L6 |
| Q305 | 8-729-402-13 | s | TRANSISTOR XN1501 |
| Q306 | 8-729-117-84 | s | TRANSISTOR 2SK160A-K26 |
| | | | [for *3,*4,*6,*8] |
| Q307 | 8-729-117-84 | s | TRANSISTOR 2SK160A-K26 |
| | | | [for *1,*2,*5,*6,*7,*8] |
| Q401 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q402 | 8-729-402-84 | s | TRANSISTOR XN4601 |
| Q403 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q404 | 8-729-402-84 | s | TRANSISTOR XN4601 |
| Q405 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q406 | 8-729-402-84 | s | TRANSISTOR XN4601 |
| Q407 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q408 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q409 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q410 | 8-729-402-13 | s | TRANSISTOR XN1501 |
| Q411 | 8-729-122-63 | s | TRANSISTOR 2SA1226 |
| Q412 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q413 | 8-729-402-87 | s | TRANSISTOR XN2401 |
| Q414 | 8-729-402-13 | s | TRANSISTOR XN1501 |
| Q415 | 8-729-122-63 | s | TRANSISTOR 2SA1226 |
| Q416 | 8-729-420-36 | s | TRANSISTOR XN2501 |
| Q417 | 8-729-402-87 | s | TRANSISTOR XN2401 |
| Q418 | 8-729-402-13 | s | TRANSISTOR XN1501 |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| Q419 | 8-729-122-63 | s TRANSISTOR 2SA1226 |
| Q420 | 8-729-420-36 | s TRANSISTOR XN2501 |
| Q421 | 8-729-402-87 | s TRANSISTOR XN2401 |
| Q422 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q601 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q602 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q603 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q604 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q605 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q606 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q607 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q608 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q609 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q701 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q702 | 8-729-027-31 | s TRANSISTOR DTA124EKA-T146 [for *3,*4,*6,*8] |
| Q703 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8] |
| Q704 | 8-729-901-00 | s TRANSISTOR DTC124EK [for *3,*4,*6,*8] |
| Q705 | 8-729-027-31 | s TRANSISTOR DTA124EKA-T146 [for *1,*2,*5,*6,*7,*8] |
| Q706 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 [for *1,*2,*5,*6,*7,*8] |
| Q707 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8] |
| Q708 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8] |
| Q801 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q802 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q803 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q804 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q805 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q806 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q807 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q808 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q809 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q810 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q811 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q812 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q813 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q814 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q815 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q816 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q817 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q818 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q819 | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6 |
| Q901 | 8-729-901-00 | s TRANSISTOR DTC124EK |
| Q902 | 8-729-901-00 | s TRANSISTOR DTC124EK [for *6,*8] |
| Q911 | 8-729-402-13 | s TRANSISTOR XN1501 |
| Q912 | 8-729-122-63 | s TRANSISTOR 2SA1226 |
| Q913 | 8-729-420-36 | s TRANSISTOR XN2501 |
| Q914 | 8-729-402-87 | s TRANSISTOR XN2401 |
| Q915 | 8-729-402-13 | s TRANSISTOR XN1501 |
| Q916 | 8-729-122-63 | s TRANSISTOR 2SA1226 |
| Q917 | 8-729-402-87 | s TRANSISTOR XN2401 |
| Q918 | 8-729-402-13 | s TRANSISTOR XN1501 |
| Q919 | 8-729-122-63 | s TRANSISTOR 2SA1226 |
| Q920 | 8-729-402-87 | s TRANSISTOR XN2401 |
| Q921 | 8-729-402-84 | s TRANSISTOR XN4601 |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| Q922 | 8-729-402-84 | s TRANSISTOR XN4601 |
| Q923 | 8-729-420-36 | s TRANSISTOR XN2501 |
| Q924 | 8-729-420-36 | s TRANSISTOR XN2501 |
| R101 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R102 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R103 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R104 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R105 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R106 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R107 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R108 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R109 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R110 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R111 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R112 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R113 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R114 | 1-216-067-00 | s METAL, CHIP 5.6K 5% 1/10W |
| R115 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R116 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R117 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R118 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R119 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R120 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R121 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R122 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R123 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R124 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R125 | 1-216-063-91 | s METAL 3.9K 5% 1/10W |
| R126 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R127 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R128 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R129 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R130 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R131 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R132 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R133 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R134 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R135 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R136 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R137 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R138 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R139 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R140 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R141 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R142 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R143 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R144 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R145 | 1-216-059-00 | s METAL, CHIP 2.7K 5% 1/10W |
| R146 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R147 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R148 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R149 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R150 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R151 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R152 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R153 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *1,*2,*5,*7] |
| R154 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R201 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R202 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R203 | 1-216-083-00 | s METAL, CHIP 27K 5% 1/10W |
| R204 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R205 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R206 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R207 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R208 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R209 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R210 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R211 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W |
| | | |
| R212 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R213 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R214 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R215 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R216 | 1-216-017-91 | s METAL 47 5% 1/10W |
| | | |
| R217 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R218 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R219 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R220 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R221 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R222 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R223 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R224 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R225 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R226 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R227 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R228 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R229 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R230 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R231 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R232 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R233 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R234 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R237 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R240 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R241 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R242 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R243 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R244 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R245 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R246 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R247 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R301 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R302 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R303 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R304 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *6,*8] |
| R305 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *6,*8] |
| R304 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R305 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R306 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for *3,*4,*6,*8] |
| | | |
| R307 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W [for *3,*4,*6,*8] |
| R308 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W [for *3,*4,*6,*8] |
| | | |
| R309 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R310 | 1-216-133-00 | s METAL, CHIP 3.3M 5% 1/10W |
| R311 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| | | |
| R312 | 1-216-031-00 | s METAL, CHIP 180 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R313 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W |
| R314 | 1-216-083-00 | s METAL, CHIP 27K 5% 1/10W |
| R315 | 1-216-083-00 | s METAL, CHIP 27K 5% 1/10W |
| R316 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R317 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| | | |
| R318 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R319 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R320 | 1-216-133-00 | s METAL, CHIP 3.3M 5% 1/10W |
| R321 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R322 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| | | |
| R323 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R324 | 1-216-017-91 | s METAL 47 5% 1/10W |
| R325 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R326 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R327 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R328 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R329 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R330 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R331 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R332 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R333 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R334 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R335 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R336 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R337 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R338 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R339 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R340 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R341 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R342 | 1-216-059-00 | s METAL, CHIP 2.7K 5% 1/10W |
| | | |
| R343 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R344 | 1-216-063-91 | s METAL 3.9K 5% 1/10W |
| R345 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R346 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R347 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| | | |
| R348 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R349 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R350 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R351 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W [for *3,*4,*6,*8] |
| R352 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| | | |
| R401 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R402 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R403 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R404 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R405 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R406 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R407 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R408 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R409 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R410 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R411 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R412 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R413 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R414 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R415 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R416 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R417 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R418 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R419 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R420 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R421 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R422 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R423 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R424 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R425 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R426 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R427 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R428 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R429 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R430 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R431 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R432 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R433 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R434 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R435 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R436 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R437 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R438 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R439 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R441 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R442 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R443 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R444 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R445 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R446 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R447 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R448 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R450 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R451 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R452 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R453 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R454 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R455 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R456 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R457 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R458 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R460 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R460 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R461 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R462 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R463 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R464 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R465 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R467 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R468 | 1-216-043-00 | s METAL, CHIP 560 5% 1/10W |
| R469 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R471 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R601 | 1-216-059-00 | s METAL, CHIP 2.7K 5% 1/10W |
| R602 | 1-216-067-00 | s METAL, CHIP 5.6K 5% 1/10W |
| R603 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R604 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R605 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R606 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R607 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R608 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R609 | 1-216-091-00 | s METAL, CHIP 56K 5% 1/10W |
| R610 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R611 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R612 | 1-216-043-00 | s METAL, CHIP 560 5% 1/10W |
| R613 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R614 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R615 | 1-216-101-00 | s METAL, CHIP 150K 5% 1/10W |
| R616 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R617 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R618 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R619 | 1-216-099-00 | s METAL, CHIP 120K 5% 1/10W |
| R620 | 1-216-075-00 | s METAL, CHIP 12K 5% 1/10W |
| R621 | 1-216-113-00 | s METAL, CHIP 470K 5% 1/10W |
| R622 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R623 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R624 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R625 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R626 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R627 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R628 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R629 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W |
| R630 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R631 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R632 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R633 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R634 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R635 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R636 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R637 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R638 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R638 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R639 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R640 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R641 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R642 | 1-216-021-00 | s METAL, CHIP 68 5% 1/10W |
| R643 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R644 | 1-216-027-00 | s METAL, CHIP 120 5% 1/10W |
| R646 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R649 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R650 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R651 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R652 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R653 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R654 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R655 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R656 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R657 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R658 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R659 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R660 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R661 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R662 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R663 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R664 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R665 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R666 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R667 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R668 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R669 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R670 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R671 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W |
| R672 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R701 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R702 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W [for *3,*4,*6,*8] |
| R703 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for *3,*4,*6,*8] |
| R704 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *3,*4,*6,*8] |
| R706 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for *3,*4,*6,*8] |
| R707 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R708 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R709 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R709 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R710 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for *3,*4,*6,*8] |
| R711 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*7] |
| R711 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for *3,*4,*6,*8] |
| R712 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *3,*4,*6,*8] |
| R713 | 1-216-097-91 | s METAL 100K 5% 1/10W [for *3,*4,*6,*8] |
| R714 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W [for *3,*4,*6,*8] |
| R715 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *3,*4,*6,*8] |
| R716 | 1-216-105-91 | s METAL, CHIP 220K 5% 1/10W [for *3,*4,*6,*8] |
| R717 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for *3,*4,*6,*8] |
| R718 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*7] |
| R801 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R802 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R803 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R804 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R805 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R806 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R807 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R808 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R809 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R810 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R811 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R812 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R813 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R814 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R815 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R816 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R817 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R818 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R819 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R820 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R821 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R822 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R823 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R824 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R825 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R826 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R827 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R828 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R829 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R830 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R831 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R832 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R833 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R834 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R835 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R836 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R837 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R838 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R839 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R840 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R841 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R842 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R843 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R844 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R845 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R846 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R847 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *6,*8] |
| R848 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R848 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R849 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R850 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R851 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R852 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R853 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R901 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R902 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R903 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R904 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R905 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R906 | 1-216-063-91 | s METAL 3.9K 5% 1/10W [for *1,*2,*5,*6,*7,*8] |
| R906 | 1-216-295-11 | s METAL, CHIP 0 5% 1/10W[for *3,*4] |
| R907 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R908 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R910 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R911 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R912 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R913 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R939 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R940 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R941 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R942 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R943 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R944 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R945 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R946 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R947 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R948 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R949 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R950 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |

(VA-181 BOARD)

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R951 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R952 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R953 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R954 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R955 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R956 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R957 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R958 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R959 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R960 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R961 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R962 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R963 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R964 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R965 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R966 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R967 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R968 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R969 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R970 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R971 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R972 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R973 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R974 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R975 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R976 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R977 | 1-216-063-91 | s METAL 3.9K 5% 1/10W |
| R978 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R979 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R980 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R981 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R982 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R983 | 1-216-027-00 | s METAL, CHIP 120 5% 1/10W |
| R984 | 1-216-031-00 | s METAL, CHIP 180 5% 1/10W |
| R985 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R986 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| RV101 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| RV102 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| RV103 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| RV201 | 1-238-856-11 | s RES, ADJ, METAL 10K |
| RV301 | 1-238-858-11 | s RES, ADJ, METAL 47K [for *3,*4,*6,*8] |
| RV302 | 1-238-852-11 | s RES, ADJ, CERMET 470 [for *3,*4,*6,*8] |
| RV303 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV304 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV305 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV306 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV307 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV401 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV601 | 1-238-854-11 | s RES, ADJ, METAL 2.2K |
| RV801 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| RV803 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| RV901 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV902 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV903 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| X301 | 1-567-504-11 | s CRYSTAL 4.433619MHz [for *3,*4,*6,*8] |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| X302 | 1-567-505-11 | s CRYSTAL 3.579545MHz [for *1,*2,*5,*6,*7,*8] |
| X303 | 1-760-593-21 | s VIBRATOR, CERAMIC 50.0KHz |
| X601 | 1-760-593-21 | s VIBRATOR, CERAMIC 50.0KHz |
| X602 | 1-527-722-00 | s OSCILLATOR, CRYSTAL 14.31818MHz [for *1,*2,*5,*6,*7,*8] |
| X603 | 1-579-057-11 | s VIBRATOR, CRYSTAL [for *3,*4,*6,*8] |
| X701 | 1-579-780-21 | s VIBRATOR, CRYSTAL 17.734475MHz [for *3,*4,*6,*8] |
| X702 | 1-767-032-11 | s CRYSTAL, 14.1875MHz [for *3,*4,*6,*8] |
| X703 | 1-579-738-21 | s VIBRATOR, CRYSTAL 14.318182MHz [for *1,*2,*5,*6,*7,*8] |

 VA-181[FOR UP-2300/2300P]

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| 1pc | A-8316-223-A | o MOUNTED CIRCUIT BOARD, VA-181(N3) [for UP-2300] |
| 1pc | A-8316-237-A | o MOUNTED CIRCUIT BOARD, VA-181(P3) [for UP-2300P] |
| C104 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C105 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C114 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C115 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C116 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C121 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300P] |
| C122 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300P] |
| C123 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C128 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C129 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C130 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C131 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C132 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C133 | 1-163-239-11 | s CERAMIC, CHIP 33PF 5% 50V |
| C134 | 1-163-231-11 | s CERAMIC 15PF 5% 50V |
| C135 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C136 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C137 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C138 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C139 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C140 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C141 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C142 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C143 | 1-126-396-11 | s ELECT, CHIP 47uF 20% 16V |
| C144 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C145 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C146 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C147 | 1-126-396-11 | s ELECT, CHIP 47uF 20% 16V |
| C148 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C149 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C150 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C151 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C152 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C153 | 1-126-395-11 | s ELECT, CHIP 22uF 20% 16V |
| C154 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C155 | 1-126-395-11 | s ELECT, CHIP 22uF 20% 16V |
| C156 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C158 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C159 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C201 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C202 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C203 | 1-163-087-00 | s CERAMIC, CHIP 4PF 50V |
| C204 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C205 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C206 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C207 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C208 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C212 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C213 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| C214 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C215 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C216 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C217 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C218 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C219 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C220 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C221 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C222 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C223 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C224 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C225 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C226 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C227 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C228 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C229 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C230 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V |
| C301 | 1-126-396-11 | s ELECT, CHIP 47uF 20% 16V |
| C302 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C303 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C304 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C305 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C306 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C307 | 1-164-005-11 | s CERAMIC, CHIP 0.47uF 25V |
| C308 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C309 | 1-163-809-11 | s CERAMIC, CHIP 0.047uF 10% 25V |
| C310 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C311 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C312 | 1-126-395-11 | s ELECT, CHIP 22uF 20% 16V |
| C313 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P] |
| C314 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300] |
| C315 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300] |
| C316 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C317 | 1-164-695-11 | s CERAMIC 0.0022uF 5% 50V |
| C318 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300] |
| C319 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P] |
| C320 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C321 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C322 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C323 | 1-164-346-11 | s CERAMIC 1uF 16V |
| C324 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C325 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C326 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C327 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C328 | 1-126-395-11 | s ELECT, CHIP 22uF 20% 16V |
| C329 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C330 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C331 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C332 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C333 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C334 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C335 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C336 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C337 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C338 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------|
| C339 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C340 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C341 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C342 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C343 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C344 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C345 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C346 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C347 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C348 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C349 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C350 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C351 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C352 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C353 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C354 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C355 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C356 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C357 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C358 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C359 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C360 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C361 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C362 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C363 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C401 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C402 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C403 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C404 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C405 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C406 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C407 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C408 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C409 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C410 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C411 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C412 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C413 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C414 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C415 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C416 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C417 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C418 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C419 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C420 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C421 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C422 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C423 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C425 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C426 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C427 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C428 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C429 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C430 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C431 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C432 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C434 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C435 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C436 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---------------------------------|
| C437 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C438 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C439 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C440 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C441 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C443 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C444 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C445 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C446 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C447 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C448 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C449 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C450 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C451 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C452 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C453 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C454 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C456 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C457 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C458 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C459 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C460 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C601 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C602 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C603 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C604 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C605 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C606 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C607 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C608 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C609 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C610 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C611 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C612 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C613 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C614 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C615 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C616 | 1-163-263-11 | s CERAMIC, CHIP 330PF 5% 50V |
| C617 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C618 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C619 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C620 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C621 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C622 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C623 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C624 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C625 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C626 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C627 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C628 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C629 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C630 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V |
| C631 | 1-163-133-00 | s CERAMIC, CHIP 470PF 5% 50V |
| C632 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C633 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C634 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C635 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C636 | 1-163-017-00 | s CERAMIC, CHIP 0.0047uF 5% 50V |
| C637 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| C638 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C639 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C640 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C641 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V |
| C642 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C643 | 1-163-275-11 | s CERAMIC 0.001uF 5% 50V |
| C644 | 1-163-091-00 | s CERAMIC, CHIP 8PF 50V [for UP-2300] |
| C645 | 1-163-091-00 | s CERAMIC, CHIP 8PF 50V [for UP-2300P] |
| C646 | 1-164-161-11 | s CERAMIC, CHIP 0.0022uF 10% 100V |
| C647 | 1-104-760-11 | s CERAMIC, CHIP 0.047uF 10% 50V |
| C648 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C649 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C650 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C651 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C652 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C653 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P] |
| C654 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300] |
| C655 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C656 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C657 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C658 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C659 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C660 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C661 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C662 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C663 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C664 | 1-163-251-11 | s CERAMIC, CHIP 100PF 5% 50V |
| C665 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C666 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C667 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C668 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C669 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C670 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C671 | 1-163-037-11 | s CERAMIC, CHIP 0.022uF 10% 25V |
| C672 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C673 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C674 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V |
| C676 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C677 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C678 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C679 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C680 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C698 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C699 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C701 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300P] |
| C702 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V [for UP-2300P] |
| C703 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for UP-2300P] |
| C704 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V [for UP-2300P] |
| C705 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for UP-2300P] |
| C706 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C707 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300] |
| C708 | 1-163-227-11 | s CERAMIC, CHIP 10PF 5% 50V [for UP-2300] |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| C709 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for UP-2300] |
| C710 | 1-163-243-11 | s CERAMIC, CHIP 47PF 5% 50V [for UP-2300] |
| C711 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V |
| C712 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C713 | 1-163-241-11 | s CERAMIC, CHIP 39PF 5% 50V [for UP-2300P] |
| C714 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V |
| C715 | 1-163-241-11 | s CERAMIC, CHIP 39PF 5% 50V [for UP-2300P] |
| C717 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300P] |
| C718 | 1-163-009-11 | s CERAMIC, CHIP 0.001uF 10% 50V [for UP-2300P] |
| C719 | 1-126-402-11 | s ELECT, CHIP 2.2uF 20% 50V [for UP-2300P] |
| C720 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300P] |
| C721 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C801 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C802 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C803 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C804 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C805 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C806 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C807 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C808 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C809 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C810 | 1-164-232-11 | s CERAMIC, CHIP 0.01uF 10% 50V |
| C811 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C812 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C813 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C814 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C815 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C816 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C817 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C818 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C819 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C820 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C821 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C822 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C823 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C824 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C825 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C826 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C827 | 1-126-401-11 | s ELECT, CHIP 1uF 20% 50V |
| C828 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C829 | 1-126-394-11 | s ELECT, CHIP 10uF 20% 16V |
| C830 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C831 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C832 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C833 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C834 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C835 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C836 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C837 | 1-126-392-11 | s ELECT, CHIP 100uF 20% 6.3V |
| C838 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C839 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C901 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C902 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C903 | 1-163-038-91 | s CERAMIC 0.1uF 25V |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| C904 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C905 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C906 | 1-163-089-00 | s CERAMIC, CHIP 6PF 50V |
| C907 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C908 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C909 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C910 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C911 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C912 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C913 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C914 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C915 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C916 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C917 | 1-126-412-11 | s ELECT 220uF 20% 4V |
| C952 | 1-163-038-91 | s CERAMIC 0.1uF 25V [for UP-2300] |
| C964 | 1-126-390-11 | s ELECT, CHIP 22uF 20% 6.3V |
| C965 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C966 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| C972 | 1-126-391-11 | s ELECT, CHIP 47uF 20% 6.3V |
| C974 | 1-163-038-91 | s CERAMIC 0.1uF 25V |
| CN101 | 1-774-287-11 | s CONNECTOR, FFC/FPC 22P |
| CN102 | 1-779-992-11 | s PIN, CONNECTOR 8P |
| CN103 | 1-778-331-11 | s CONNECTOR, FFC/FPC 16P |
| CN104 | 1-774-770-11 | s CONNECTOR, FFC/FPC 30P |
| CN105 | 1-774-287-11 | s CONNECTOR, FFC/FPC 22P |
| CN106 | 1-774-767-11 | s CONNECTOR, FFC/FPC 15P |
| CV301 | 1-141-368-11 | s CAP, CHIP TRIMMER [for UP-2300P] |
| CV302 | 1-141-368-11 | s CAP, CHIP TRIMMER [for UP-2300] |
| CV601 | 1-141-311-11 | s VAR, TRIMMER 20PF [for UP-2300] |
| CV602 | 1-141-311-11 | s VAR, TRIMMER 20PF [for UP-2300P] |
| CV701 | 1-141-311-11 | s VAR, TRIMMER 20PF [for UP-2300P] |
| CV702 | 1-141-311-11 | s VAR, TRIMMER 20PF [for UP-2300P] |
| CV703 | 1-141-311-11 | s VAR, TRIMMER 20PF [for UP-2300] |
| D201 | 8-719-800-76 | s DIODE 1SS226 |
| D202 | 8-719-800-76 | s DIODE 1SS226 |
| D401 | 8-719-976-96 | s DIODE DTZ4.7C |
| D701 | 8-713-102-23 | s DIODE 1T362A-M20E-T8A [for UP-2300P] |
| DL101 | 1-415-761-21 | s DELAY LINE, LC |
| DL102 | 1-415-760-21 | s DELAY LINE, LC |
| DL301 | 1-415-313-00 | s DELAY LINE (1H) [for UP-2300P] |
| FL201 | 1-239-563-11 | s FILTER, LOW PASS |
| FL202 | 1-239-563-11 | s FILTER, LOW PASS |
| FL203 | 1-239-563-11 | s FILTER, LOW PASS |
| FL301 | 1-239-564-11 | s FILTER, LOW-PASS |
| FL302 | 1-239-564-11 | s FILTER, LOW-PASS |
| FL303 | 1-239-564-11 | s FILTER, LOW-PASS |
| IC101 | 8-759-038-15 | s IC MC74HC4538AF |
| IC103 | 8-759-710-86 | s IC NJM2233BM |
| IC104 | 8-759-157-17 | s IC PQ05SZ1U |
| IC105 | 8-759-157-17 | s IC PQ05SZ1U |
| IC106 | 8-759-168-19 | s IC TA78L09F-TE12L |
| IC201 | 8-752-352-20 | s IC CXD2023Q [for UP-2300] |
| IC201 | 8-752-372-78 | s IC CXD2024AQ [for UP-2300P] |
| IC301 | 8-752-058-64 | s IC CXA1213BS |
| IC302 | 8-759-062-66 | s IC TC7S66F |
| IC303 | 8-759-062-66 | s IC TC7S66F |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--------------------------------------|
| IC304 | 8-759-983-69 | s IC LM358PS |
| IC305 | 8-759-710-86 | s IC NJM2233BM |
| IC306 | 8-759-710-86 | s IC NJM2233BM |
| IC307 | 8-759-710-86 | s IC NJM2233BM |
| IC308 | 8-759-262-00 | s IC MC14576CF |
| IC401 | 8-759-062-66 | s IC TC7S66F |
| IC402 | 8-759-062-66 | s IC TC7S66F |
| IC403 | 8-759-062-66 | s IC TC7S66F |
| IC404 | 8-752-053-21 | s IC CXA1211M |
| IC405 | 8-752-053-21 | s IC CXA1211M |
| IC406 | 8-752-053-21 | s IC CXA1211M |
| IC407 | 8-759-983-69 | s IC LM358PS |
| IC408 | 8-759-242-64 | s IC TC4W53F |
| IC409 | 8-759-983-69 | s IC LM358PS |
| IC601 | 8-759-038-15 | s IC MC74HC4538AF |
| IC602 | 8-759-710-12 | s IC NJM2230M |
| IC603 | 8-759-242-64 | s IC TC4W53F |
| IC604 | 8-759-038-15 | s IC MC74HC4538AF |
| IC605 | 8-759-242-64 | s IC TC4W53F |
| IC606 | 8-752-039-91 | s IC CXA1437Q |
| IC607 | 8-759-101-12 | s IC UPC311G2 |
| IC608 | 8-752-062-80 | s IC CXA1686M |
| IC609 | 8-759-929-26 | s IC TL431CPS |
| IC610 | 8-759-100-95 | s IC UPC324G2 |
| IC611 | 8-759-635-27 | s IC M62352GP |
| IC613 | 8-759-926-52 | s IC SN74HC257ANS |
| IC614 | 8-759-242-76 | s IC TC7W08F |
| IC615 | 8-759-242-64 | s IC TC4W53F |
| IC616 | 8-759-387-75 | s IC TC7W00F(TE12R) |
| IC701 | 8-752-341-58 | s IC CXD1217Q |
| IC702 | 8-759-242-64 | s IC TC4W53F |
| IC801 | 8-752-053-21 | s IC CXA1211M |
| IC802 | 8-752-053-21 | s IC CXA1211M |
| IC803 | 8-759-242-76 | s IC TC7W08F |
| IC804 | 8-759-278-95 | s IC BA7606F |
| IC901 | 8-752-068-43 | s IC CXA1645M |
| L101 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L102 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L103 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L104 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L105 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L106 | 1-424-653-11 | s COIL, CHOKE 10uH |
| L201 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L301 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L302 | 1-410-380-31 | s INDUCTOR CHIP 8.2uH [for UP-2300P] |
| L303 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L304 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L305 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L601 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L602 | 1-410-656-11 | s INDUCTOR CHIP 150uH |
| L603 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L604 | 1-410-387-11 | s INDUCTOR CHIP 33uH |
| L701 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L702 | 1-410-377-31 | s INDUCTOR CHIP 4.7uH [for UP-2300P] |
| L703 | 1-410-377-31 | s INDUCTOR CHIP 4.7uH [for UP-2300P] |
| L801 | 1-410-369-11 | s INDUCTOR CHIP 1uH |
| L902 | 1-410-369-11 | s INDUCTOR CHIP 1uH |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------------|---|
| LV301 | 1-411-191-21 s | COIL, VARIABLE (D.A.T) [for UP-2300P] |
| Q104 | 8-729-420-36 s | TRANSISTOR XN2501 [for UP-2300P] |
| Q105 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q106 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q113 | 8-729-216-22 s | TRANSISTOR 2SA1162 |
| Q201 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q202 | 8-729-402-13 s | TRANSISTOR XN1501 |
| Q203 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q204 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q205 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q206 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q207 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q209 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q210 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q211 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q212 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q301 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 [for UP-2300P] |
| Q302 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q303 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q304 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q305 | 8-729-402-13 s | TRANSISTOR XN1501 |
| Q306 | 8-729-117-84 s | TRANSISTOR 2SK160A-K26 [for UP-2300P] |
| Q307 | 8-729-117-84 s | TRANSISTOR 2SK160A-K26 [for UP-2300] |
| Q401 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q402 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q403 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q404 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q405 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q406 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q407 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q408 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q409 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q410 | 8-729-402-13 s | TRANSISTOR XN1501 |
| Q411 | 8-729-122-63 s | TRANSISTOR 2SA1226 |
| Q412 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q413 | 8-729-402-87 s | TRANSISTOR XN2401 |
| Q414 | 8-729-402-13 s | TRANSISTOR XN1501 |
| Q415 | 8-729-122-63 s | TRANSISTOR 2SA1226 |
| Q416 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q417 | 8-729-402-87 s | TRANSISTOR XN2401 |
| Q418 | 8-729-402-13 s | TRANSISTOR XN1501 |
| Q419 | 8-729-122-63 s | TRANSISTOR 2SA1226 |
| Q420 | 8-729-420-36 s | TRANSISTOR XN2501 |
| Q421 | 8-729-402-87 s | TRANSISTOR XN2401 |
| Q422 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q601 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q602 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q603 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q604 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q605 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q606 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q607 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q608 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q609 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q701 | 8-729-901-00 s | TRANSISTOR DTC124EK |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------------|---|
| Q702 | 8-729-027-31 s | TRANSISTOR DTA124EKA-T146 [for UP-2300P] |
| Q703 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 [for UP-2300P] |
| Q704 | 8-729-901-00 s | TRANSISTOR DTC124EK [for UP-2300P] |
| Q705 | 8-729-027-31 s | TRANSISTOR DTA124EKA-T146 [for UP-2300] |
| Q706 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 [for UP-2300] |
| Q707 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 [for UP-2300P] |
| Q708 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 [for UP-2300P] |
| Q801 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q802 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q803 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q804 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q805 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q806 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q807 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q808 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q809 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q810 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q811 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q812 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q813 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q814 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q815 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q816 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q817 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q818 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q819 | 8-729-120-28 s | TRANSISTOR 2SC1623-L5L6 |
| Q901 | 8-729-901-00 s | TRANSISTOR DTC124EK |
| Q921 | 8-729-402-84 s | TRANSISTOR XN4601 |
| Q922 | 8-729-402-84 s | TRANSISTOR XN4601 |
| R104 | 1-216-081-00 s | METAL, CHIP 22K 5% 1/10W |
| R105 | 1-216-081-00 s | METAL, CHIP 22K 5% 1/10W |
| R110 | 1-216-081-00 s | METAL, CHIP 22K 5% 1/10W |
| R115 | 1-216-057-00 s | METAL, CHIP 2.2K 5% 1/10W |
| R116 | 1-216-085-00 s | METAL, CHIP 33K 5% 1/10W |
| R121 | 1-216-081-00 s | METAL, CHIP 22K 5% 1/10W |
| R126 | 1-216-057-00 s | METAL, CHIP 2.2K 5% 1/10W |
| R143 | 1-216-073-00 s | METAL, CHIP 10K 5% 1/10W [for UP-2300P] |
| R144 | 1-216-097-91 s | METAL 100K 5% 1/10W [for UP-2300P] |
| R145 | 1-216-059-00 s | METAL, CHIP 2.7K 5% 1/10W |
| R146 | 1-216-073-00 s | METAL, CHIP 10K 5% 1/10W |
| R147 | 1-216-057-00 s | METAL, CHIP 2.2K 5% 1/10W |
| R148 | 1-216-053-00 s | METAL, CHIP 1.5K 5% 1/10W |
| R149 | 1-216-049-00 s | METAL, CHIP 1K 5% 1/10W |
| R150 | 1-216-049-00 s | METAL, CHIP 1K 5% 1/10W |
| R152 | 1-216-295-00 s | METAL, CHIP 0 5% 1/10W |
| R153 | 1-216-073-00 s | METAL, CHIP 10K 5% 1/10W [for UP-2300] |
| R154 | 1-216-295-00 s | METAL, CHIP 0 5% 1/10W [for UP-2300P] |
| R201 | 1-216-081-00 s | METAL, CHIP 22K 5% 1/10W |
| R202 | 1-216-025-00 s | METAL, CHIP 100 5% 1/10W |
| R203 | 1-216-083-00 s | METAL, CHIP 27K 5% 1/10W |
| R204 | 1-216-073-00 s | METAL, CHIP 10K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R205 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R206 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R207 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R208 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R209 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R210 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R211 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W |
| R212 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R213 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R214 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R215 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R216 | 1-216-017-91 | s METAL 47 5% 1/10W |
| R217 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R218 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R219 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| | | |
| R220 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R221 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R222 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R223 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R224 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R225 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R226 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R227 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R228 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| R229 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| | | |
| R230 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R231 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R232 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R233 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R234 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R237 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R240 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R241 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R242 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R243 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R244 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R245 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R246 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R247 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R301 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R302 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R303 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R304 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300P] |
| R305 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300P] |
| R306 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for UP-2300P] |
| | | |
| R307 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W [for UP-2300P] |
| R308 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W [for UP-2300P] |
| | | |
| R309 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R310 | 1-216-133-00 | s METAL, CHIP 3.3M 5% 1/10W |
| R311 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| | | |
| R312 | 1-216-031-00 | s METAL, CHIP 180 5% 1/10W |
| R313 | 1-216-039-00 | s METAL, CHIP 390 5% 1/10W |
| R314 | 1-216-083-00 | s METAL, CHIP 27K 5% 1/10W |
| R315 | 1-216-083-00 | s METAL, CHIP 27K 5% 1/10W |
| R316 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R317 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R318 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R319 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R320 | 1-216-133-00 | s METAL, CHIP 3.3M 5% 1/10W |
| R321 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| | | |
| R322 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R323 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R324 | 1-216-017-91 | s METAL 47 5% 1/10W |
| R325 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R326 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| | | |
| R327 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R328 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R329 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R330 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R331 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R332 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R333 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R334 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R335 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R336 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R337 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R338 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R339 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R340 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R341 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| | | |
| R342 | 1-216-059-00 | s METAL, CHIP 2.7K 5% 1/10W |
| R343 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R344 | 1-216-063-91 | s METAL 3.9K 5% 1/10W |
| R345 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R346 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| | | |
| R347 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R348 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R349 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R350 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R351 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W [for UP-2300P] |
| | | |
| R352 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W [for UP-2300] |
| R401 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R402 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R403 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R404 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| | | |
| R405 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R406 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R407 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R408 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R409 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R410 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R411 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R412 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R413 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R414 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R415 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R416 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R417 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R418 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R419 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| | | |
| R420 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R421 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |

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| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R422 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R423 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R424 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R425 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R426 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| | | |
| R427 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R428 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R429 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R430 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R431 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R432 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R433 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R434 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R435 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R436 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| | | |
| R437 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R438 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R439 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R441 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R442 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| | | |
| R443 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R444 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R445 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R446 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R447 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| | | |
| R448 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| R450 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R451 | 1-216-051-00 | s METAL, CHIP 1.2K 5% 1/10W |
| R452 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R453 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R454 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R455 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R456 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R457 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R458 | 1-216-023-00 | s METAL, CHIP 82 5% 1/10W |
| | | |
| R460 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W |
| R461 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R462 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R463 | 1-216-689-11 | s METAL, CHIP 39K 0.5% 1/10W [for UP-2300] |
| R463 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W [for UP-2300P] |
| | | |
| R464 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R465 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R467 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R468 | 1-216-043-00 | s METAL, CHIP 560 5% 1/10W |
| R469 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R471 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R601 | 1-216-059-00 | s METAL, CHIP 2.7K 5% 1/10W |
| R602 | 1-216-067-00 | s METAL, CHIP 5.6K 5% 1/10W |
| R603 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R604 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R605 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R606 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R607 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R608 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R609 | 1-216-091-00 | s METAL, CHIP 56K 5% 1/10W |
| | | |
| R610 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R611 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R612 | 1-216-043-00 | s METAL, CHIP 560 5% 1/10W |
| R613 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R614 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R615 | 1-216-101-00 | s METAL, CHIP 150K 5% 1/10W |
| R616 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| | | |
| R617 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R618 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R619 | 1-216-099-00 | s METAL, CHIP 120K 5% 1/10W |
| R620 | 1-216-075-00 | s METAL, CHIP 12K 5% 1/10W |
| R621 | 1-216-113-00 | s METAL, CHIP 470K 5% 1/10W |
| | | |
| R622 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R623 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R624 | 1-216-079-00 | s METAL, CHIP 18K 5% 1/10W |
| R625 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R626 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R627 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R628 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R629 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W |
| R630 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R631 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W |
| | | |
| R632 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R633 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W |
| R634 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R635 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R636 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R637 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R638 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W |
| R639 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R640 | 1-216-013-00 | s METAL, CHIP 33 5% 1/10W |
| R641 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| | | |
| R642 | 1-216-021-00 | s METAL, CHIP 68 5% 1/10W |
| R643 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R644 | 1-216-027-00 | s METAL, CHIP 120 5% 1/10W |
| R646 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R649 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R650 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R651 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R652 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R653 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R654 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| | | |
| R655 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R656 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R657 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R658 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R659 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| | | |
| R660 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R661 | 1-216-097-91 | s METAL 100K 5% 1/10W |
| R662 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R663 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R664 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| | | |
| R665 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R666 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R667 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R668 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R669 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| | | |
| R672 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R701 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R702 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W [for UP-2300P] |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|---|
| R703 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for UP-2300P] |
| R704 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for UP-2300P] |
| R706 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for UP-2300P] |
| R707 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for UP-2300] |
| R708 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for UP-2300] |
| R709 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for UP-2300] |
| R709 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300P] |
| R710 | 1-216-069-00 | s METAL, CHIP 6.8K 5% 1/10W [for UP-2300P] |
| R711 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300] |
| R711 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W [for UP-2300P] |
| R712 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for UP-2300P] |
| R713 | 1-216-097-91 | s METAL 100K 5% 1/10W [for UP-2300P] |
| R714 | 1-216-065-00 | s METAL, CHIP 4.7K 5% 1/10W [for UP-2300P] |
| R715 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for UP-2300P] |
| R716 | 1-216-105-91 | s METAL, CHIP 220K 5% 1/10W [for UP-2300P] |
| R717 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W [for UP-2300P] |
| R718 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300] |
| R801 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R802 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R803 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R804 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R805 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R806 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R807 | 1-216-045-00 | s METAL, CHIP 680 5% 1/10W |
| R808 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R809 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R810 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R811 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R812 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R813 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R814 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R815 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R816 | 1-216-041-00 | s METAL, CHIP 470 5% 1/10W |
| R817 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R818 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R819 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R820 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R821 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R822 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R823 | 1-216-035-00 | s METAL, CHIP 270 5% 1/10W |
| R824 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R825 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R826 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R827 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R828 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| R829 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R830 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R831 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R832 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R833 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R834 | 1-216-085-00 | s METAL, CHIP 33K 5% 1/10W |
| R835 | 1-216-071-00 | s METAL, CHIP 8.2K 5% 1/10W |
| R836 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R837 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R838 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R839 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R840 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R841 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R842 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R843 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R844 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R845 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R846 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R849 | 1-216-055-00 | s METAL, CHIP 1.8K 5% 1/10W |
| R850 | 1-216-025-00 | s METAL, CHIP 100 5% 1/10W |
| R851 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W |
| R852 | 1-216-053-00 | s METAL, CHIP 1.5K 5% 1/10W |
| R853 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R901 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R902 | 1-216-073-00 | s METAL, CHIP 10K 5% 1/10W |
| R903 | 1-216-089-91 | s METAL 47K 5% 1/10W |
| R904 | 1-216-077-00 | s METAL, CHIP 15K 5% 1/10W |
| R905 | 1-216-049-00 | s METAL, CHIP 1K 5% 1/10W |
| R906 | 1-216-063-91 | s METAL 3.9K 5% 1/10W [for UP-2300] |
| R906 | 1-216-295-00 | s METAL, CHIP 0 5% 1/10W [for UP-2300P] |
| R907 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R908 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R910 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R911 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R912 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R913 | 1-216-029-00 | s METAL, CHIP 150 5% 1/10W |
| R976 | 1-216-061-00 | s METAL, CHIP 3.3K 5% 1/10W [for UP-2300] |
| R977 | 1-216-063-91 | s METAL 3.9K 5% 1/10W [for UP-2300] |
| R978 | 1-216-081-00 | s METAL, CHIP 22K 5% 1/10W [for UP-2300] |
| R979 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R980 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R981 | 1-216-309-00 | s METAL 5.6 5% 1/10W |
| R982 | 1-216-057-00 | s METAL, CHIP 2.2K 5% 1/10W |
| R983 | 1-216-027-00 | s METAL, CHIP 120 5% 1/10W |
| RV201 | 1-238-856-11 | s RES, ADJ, METAL 10K |
| RV301 | 1-238-858-11 | s RES, ADJ, METAL 47K [for UP-2300P] |
| RV302 | 1-238-852-11 | s RES, ADJ, CERMET 470 [for UP-2300P] |
| RV303 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV304 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV305 | 1-238-853-11 | s RES, ADJ, METAL 1K |
| RV306 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV307 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV401 | 1-238-855-11 | s RES, ADJ, METAL 4.7K |
| RV601 | 1-238-854-11 | s RES, ADJ, METAL 2.2K |
| RV801 | 1-238-852-11 | s RES, ADJ, CERMET 470 |

(VA-181[FOR UP-2300/2300P])

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|--------------|--|
| RV803 | 1-238-852-11 | s RES, ADJ, CERMET 470 |
| X301 | 1-567-504-11 | s CRYSTAL 4.433619MHz [for UP-2300P] |
| X302 | 1-567-505-11 | s CRYSTAL 3.579545MHz [for UP-2300] |
| X303 | 1-760-593-21 | s VIBRATOR, CERAMIC 50.0KHz |
| X601 | 1-760-593-21 | s VIBRATOR, CERAMIC 50.0KHz |
| X602 | 1-527-722-00 | s OSCILLATOR, CRYSTAL 14.31818MHz [for UP-2300] |

| | | |
|------|--------------|--|
| X603 | 1-579-057-11 | s VIBRATOR, CRYSTAL [for UP-2300P] |
| X701 | 1-579-780-21 | s VIBRATOR, CRYSTAL 17.734475MHz [for UP-2300P] |
| X702 | 1-767-032-11 | s CRYSTAL, 14.1875MHz [for UP-2300P] |
| X703 | 1-579-738-21 | s VIBRATOR, CRYSTAL 14.318182MHz [for UP-2300] |

FRAME

| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------------|---|
| 1pc | △ 1-468-250-12 | s SWITCHIN REGULATOR |
| | △ 1-576-232-41 | s FUSE 5A 250V |
| 1pc | 1-500-473-11 | s HEAD, THERMAL (LV6102) |
| 2pcs | 1-541-684-51 | s MOTOR, DC |
| 1pc | 1-698-555-21 | s MOTOR, STEPPING (PM42S-048-SNA6) |
| 1pc | 1-692-960-11 | s SWITCH, PUSH (1 KEY) |
| 1pc | 1-763-007-11 | s FAN, DC |
| 1pc | 1-782-724-11 | s WIRE, FLAT (15-CORE) |
| 1pc | 1-782-725-11 | s WIRE, FLAT (22-CORE) |
| 1pc | 1-782-726-11 | s WIRE, FLAT (18-CORE) |
| 1pc | 1-782-727-11 | s WIRE, FLAT (14-CORE) |
| 1pc | 1-782-728-11 | s WIRE, FLAT (9-CORE) |
| 1pc | 1-782-733-11 | s WIRE, FLAT (30-CORE) |
| 1pc | 1-782-734-11 | s WIRE, FLAT (14-CORE) |
| 1pc | 1-782-735-11 | s WIRE, FLAT (22-CORE) |
| 1pc | 1-782-736-11 | s WIRE, FLAT (12-CORE) |
| 1pc | 1-782-737-11 | s WIRE, FLAT (16-CORE) [for UP-2800/2800P/2850P/2900MD/2950MD] |
| 1pc | 1-782-738-11 | s WIRE, FLAT (21-CORE) |
| 1pc | 1-782-739-11 | s WIRE, FLAT (19-CORE) |
| 1pc | 1-782-907-11 | s CABLE, FLAT (16-CORE) |
| 1pc | 1-782-908-11 | s CABLE, FLAT (22-CORE) |
| 1pc | 1-801-886-11 | s LCD MODULE [for UP-2800/2800P/2850P/2900MD/2950MD] |

TO CN001/PRT-11

| | | |
|-----|--------------|-------------------------|
| 1pc | 1-562-655-11 | o SOCKET, CONNECTOR 13P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |

TO CN002/SWITCHING REGULATOR

| | | |
|-----|--------------|-------------------------|
| 1pc | 1-562-655-11 | o SOCKET, CONNECTOR 13P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |

TO CN003/SWITCHING REGULATOR

| | | |
|-----|--------------|------------------------|
| 1pc | 1-562-650-11 | o SOCKET, CONNECTOR 8P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |

TO CN004/SWITCHING REGULATOR

| | | |
|-----|--------------|------------------------|
| 1pc | 1-562-647-11 | o SOCKET, CONNECTOR 5P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |

(FRAME)

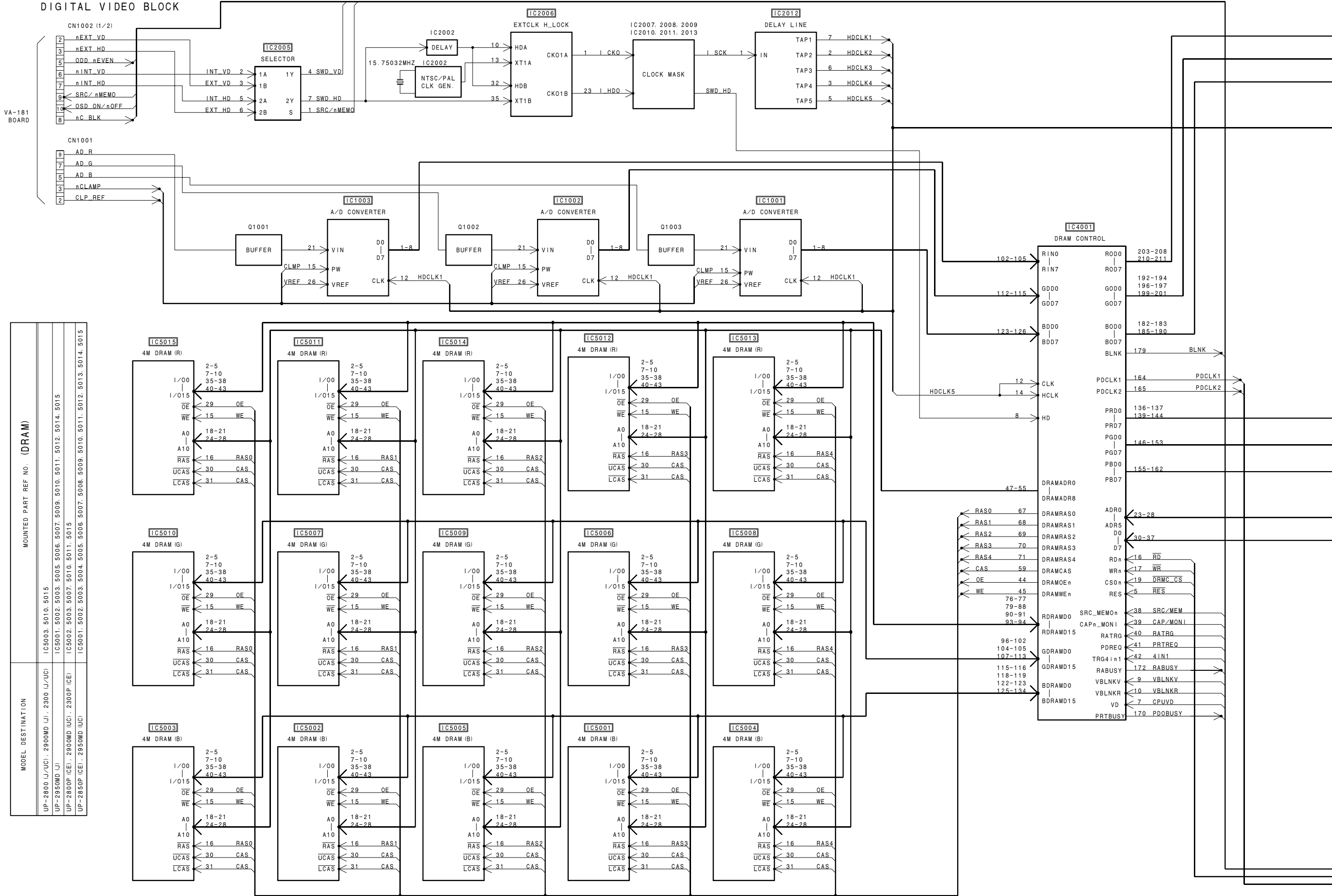
| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|------------------|------------------------|
| | TO CN102/VA-181 | |
| 1pc | 1-562-650-11 | o SOCKET, CONNECTOR 8P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |
| | TO CN2001/FMY-21 | |
| 1pc | 1-562-647-11 | o SOCKET, CONNECTOR 5P |
| 1pc | 1-562-643-11 | o CONTACT, FEMALE |

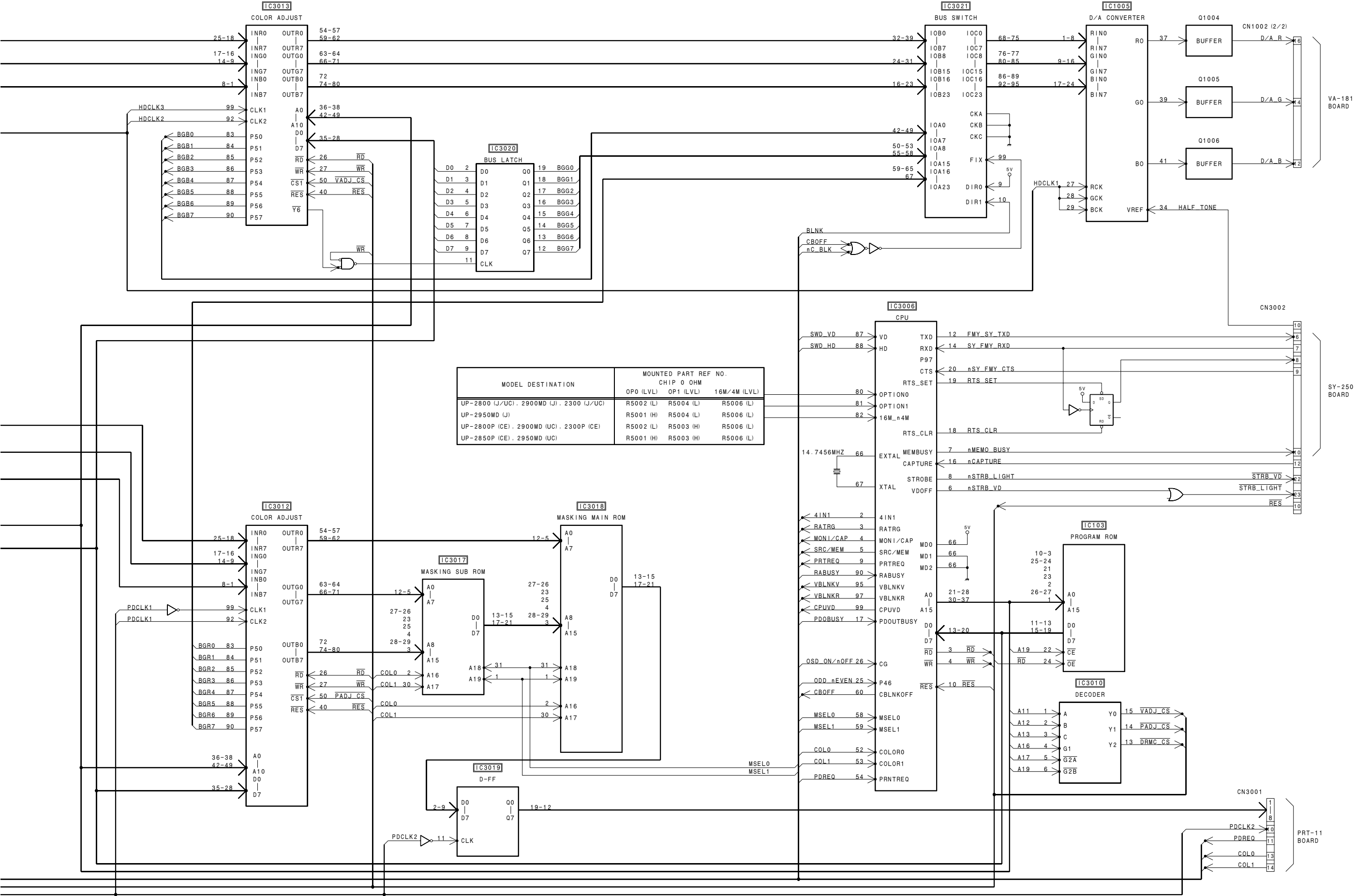
SUPPLIED ACCESSORIES

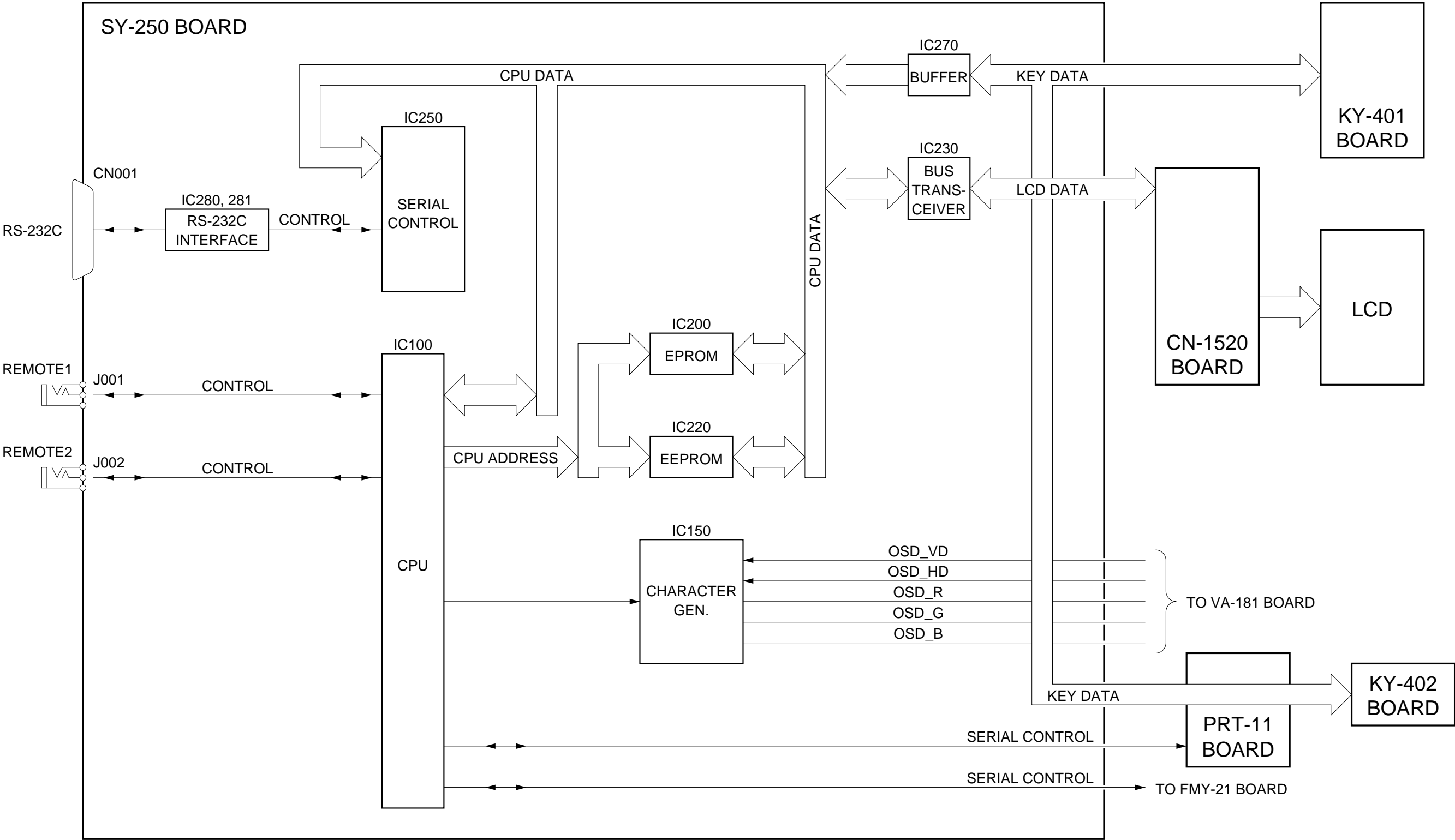
| Ref. No. or Q'ty | Part No. | SP Description |
|---------------------|----------------|---|
| 1pc | A-8278-738-A | s STD TRAY ASSY |
| 1pc | △ 1-534-827-14 | s CORD, POWER[For UP-2800/2300(UC)] |
| 1pc | △ 1-551-631-22 | s CORD, POWER[For CE] |
| 1pc | △ 1-559-945-11 | s CORD, POWER [For UP-2900MD/2950MD(UC)] |
| 1pc | △ 1-575-181-11 | s CORD, POWER[For J] |
| 1pc | △ 1-750-686-11 | s CONNECTOR, CONVERSION(3P-2P) [For J] |
| 1pc | 3-609-528-01 | o TRAY, PAPER EJECT |
| 1pc | 3-860-608-01 | s MANUAL, INSTRUCTION[For J] |
| 1pc | 3-860-608-11 | s MANUAL, INSTRUCTION [For UP-2800/2300(UC)] |
| 1pc | 3-860-608-21 | s MANUAL, INSTRUCTION [For UP-2800P/2850P/2300P] |
| 1pc | 3-860-608-31 | s MANUAL, INSTRUCTION [For UP-2900MD/2950MD(UC)] |

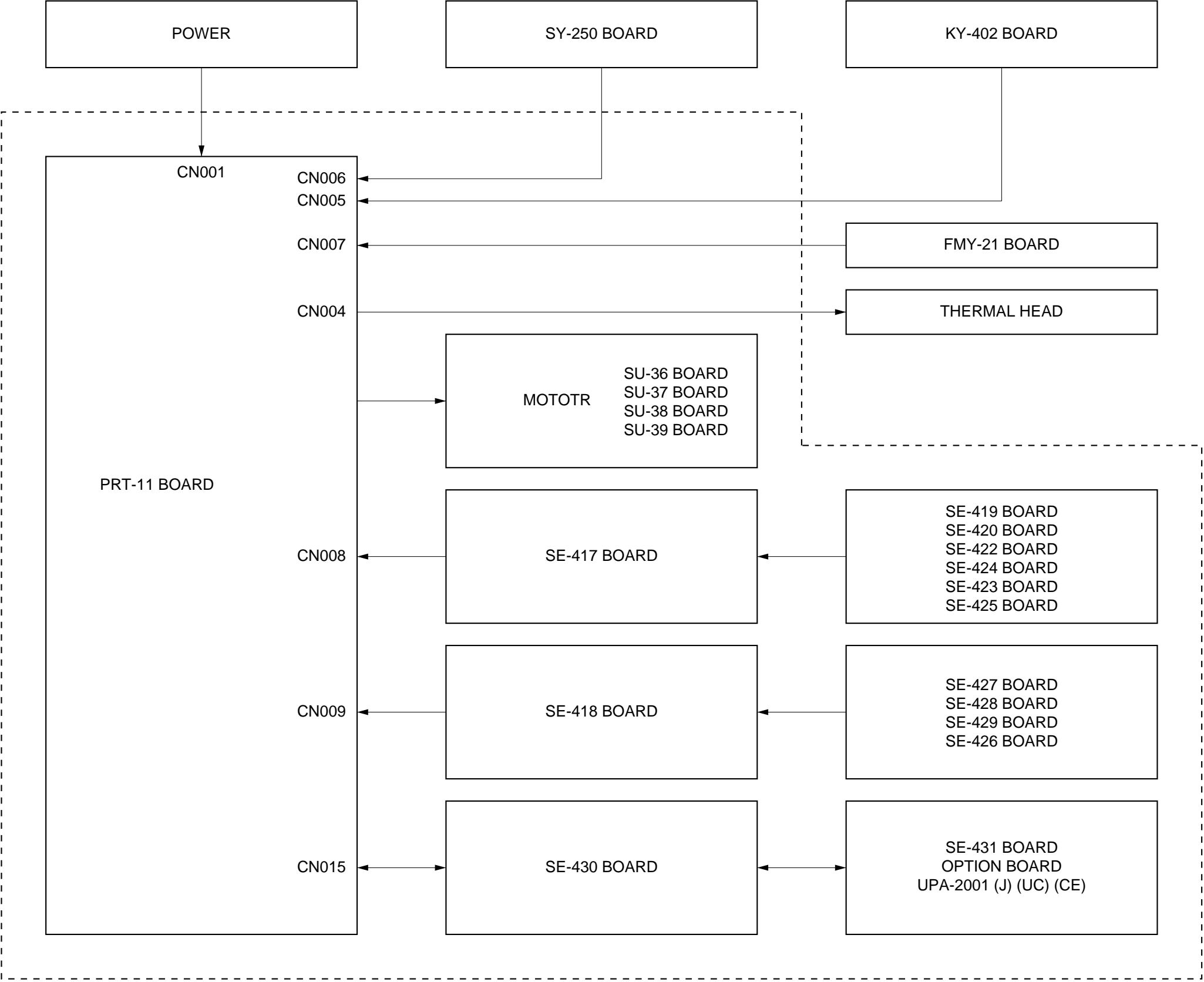
SECTION 9
BLOCK DIAGRAM

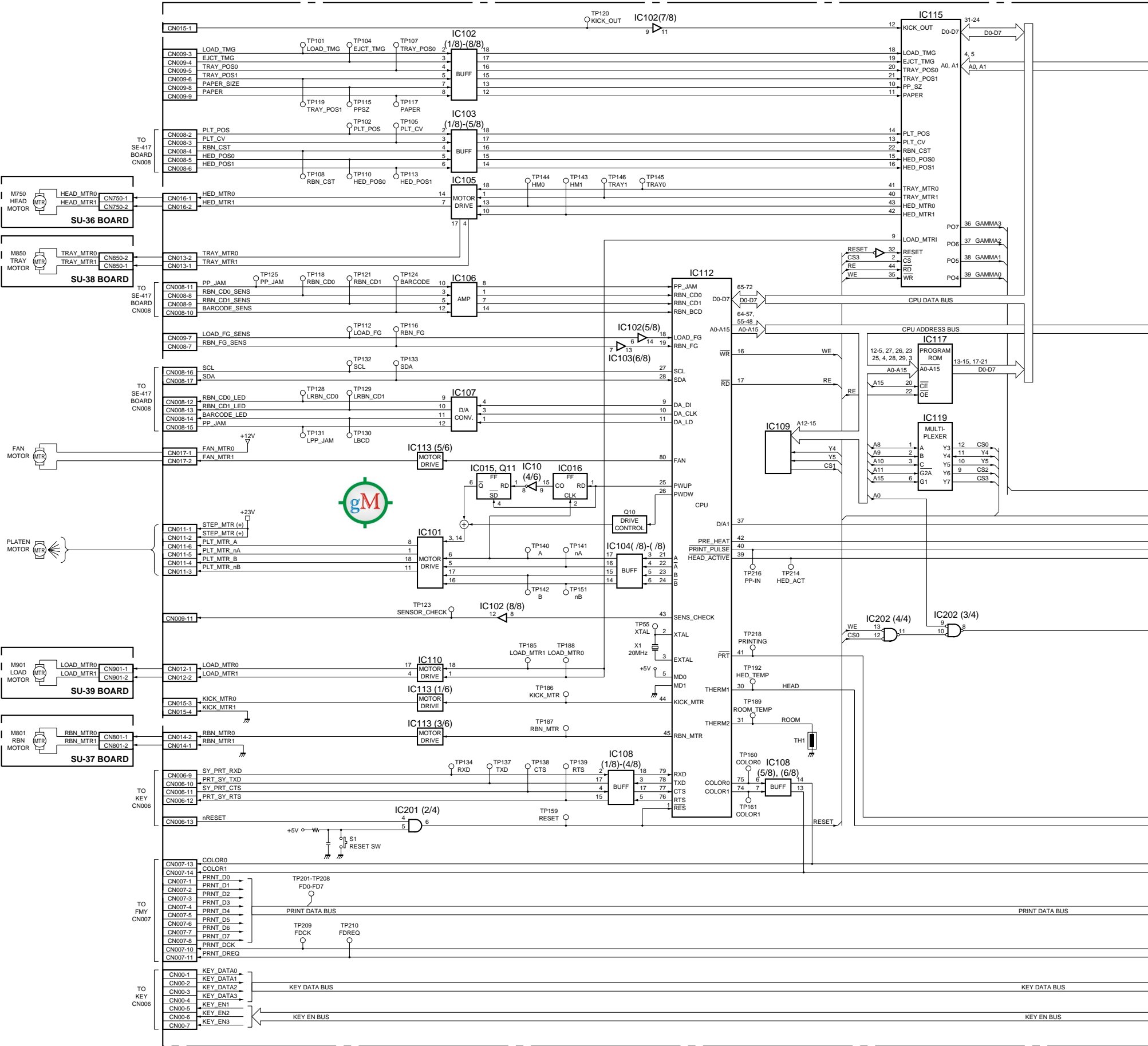
DIGITAL VIDEO BLOCK



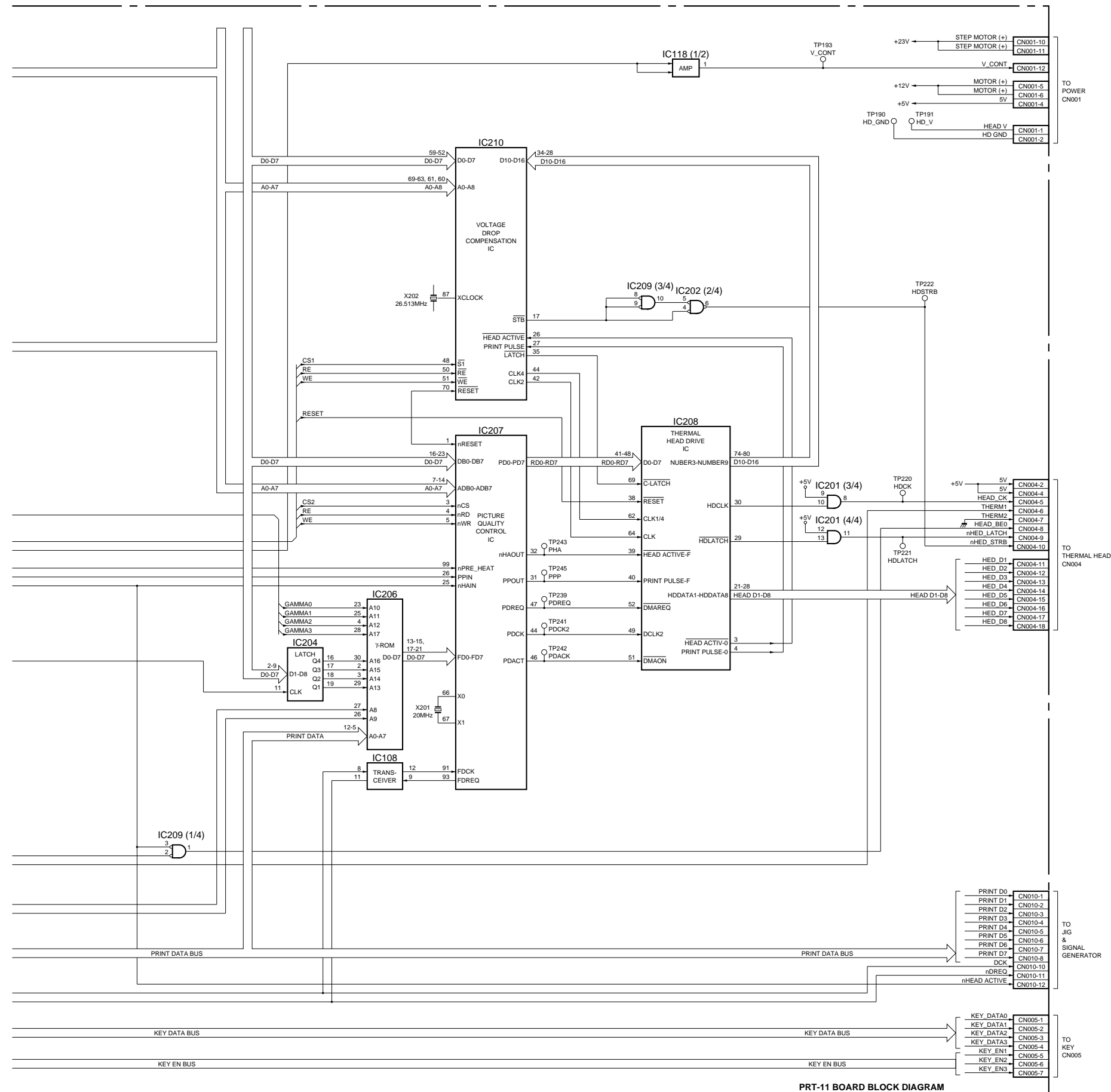




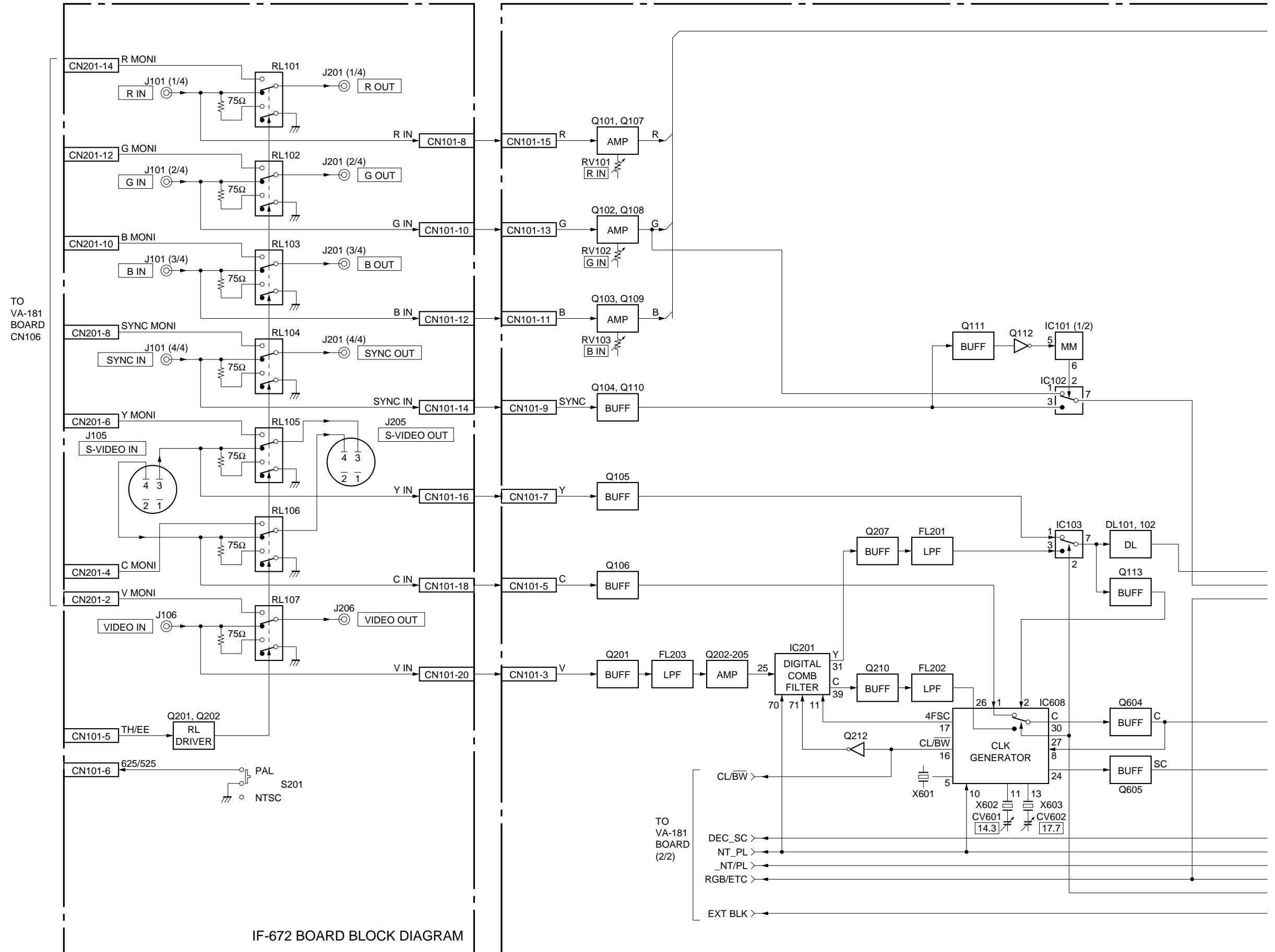


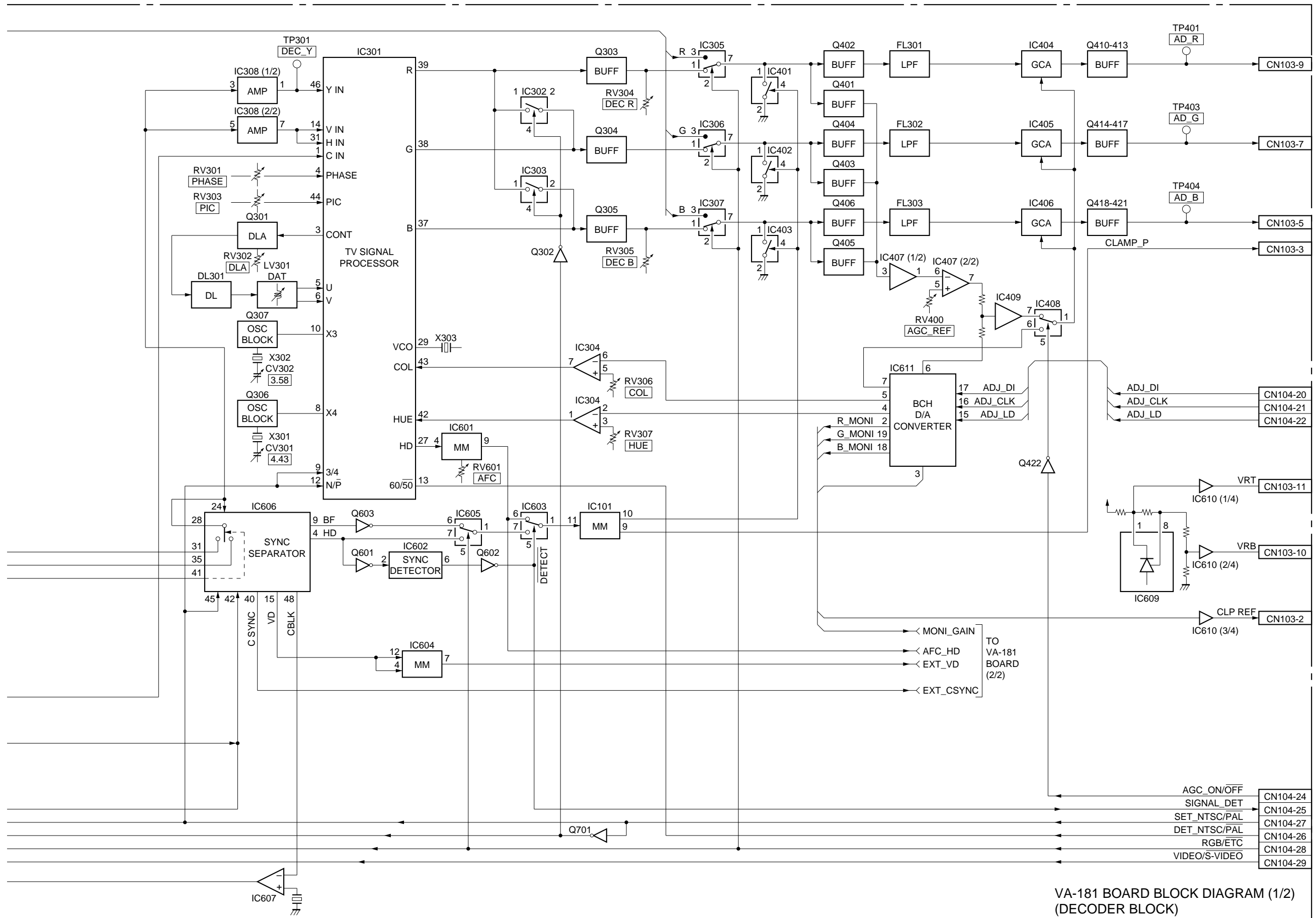


PRT-11 (2)

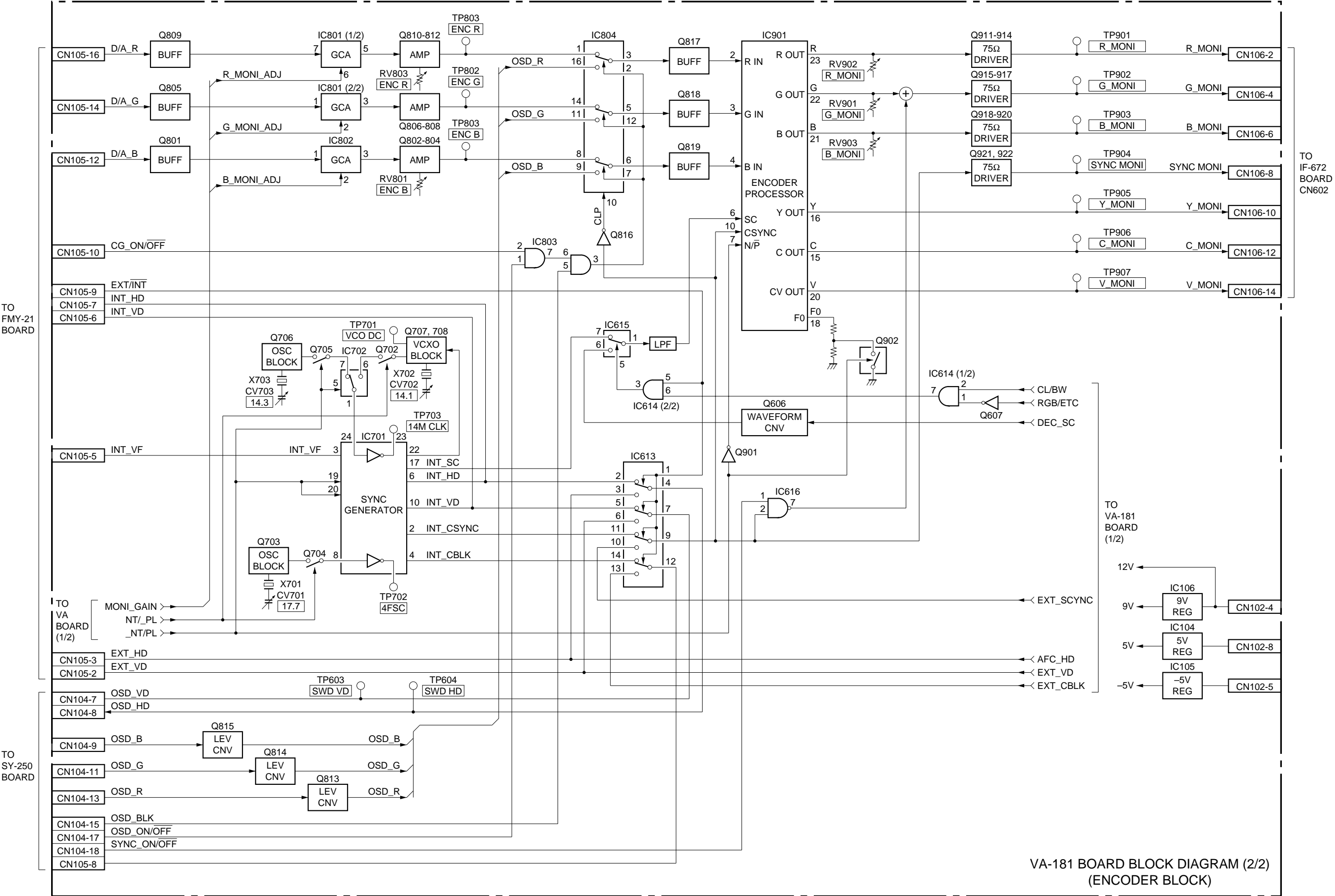


VA-181 (1/2)





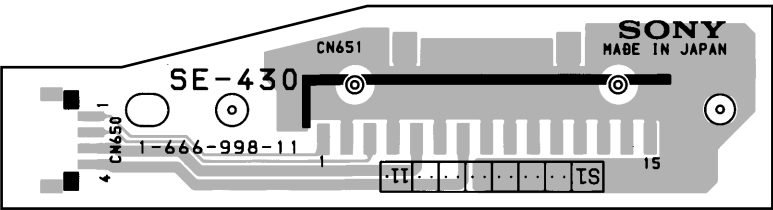
VA-181 (2/2)



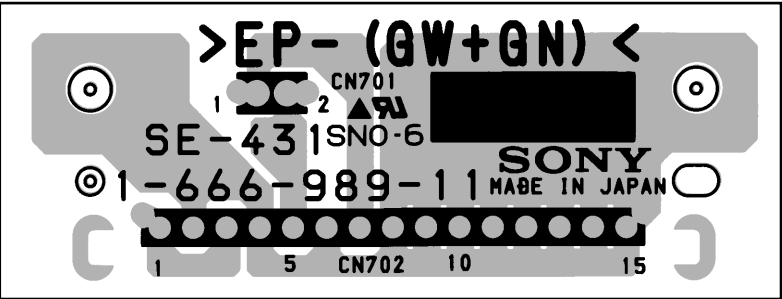
SECTION 10
 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note: The components identified by mark \triangle are critical for safety. Replace only with part number specified.

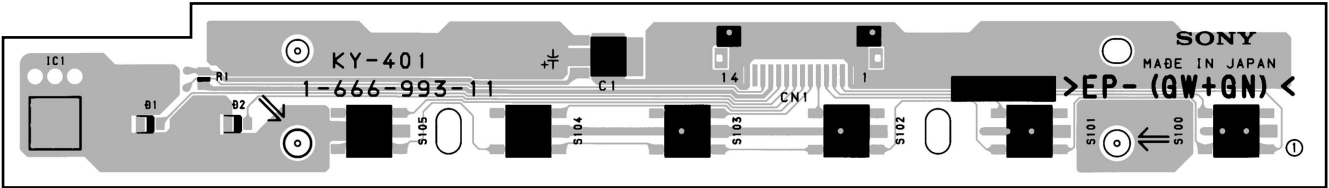
Note: Les composants identifiés par une marque \triangle sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



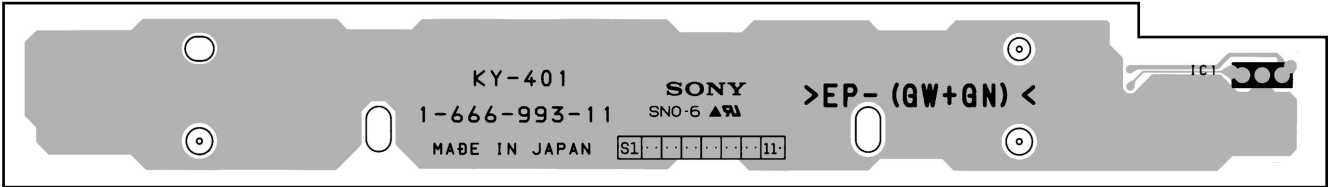
SE-430 A SIDE
 1-666-998-11



SE-431 A SIDE
 1-666-989-11

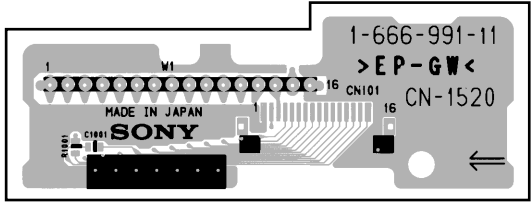


KY-401 A SIDE
 1-666-993-11

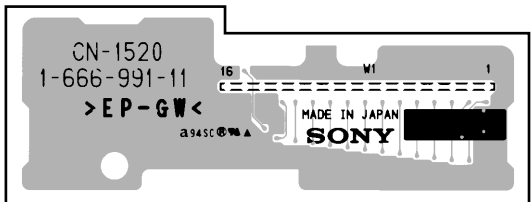


KY-401 B SIDE
 1-666-993-11

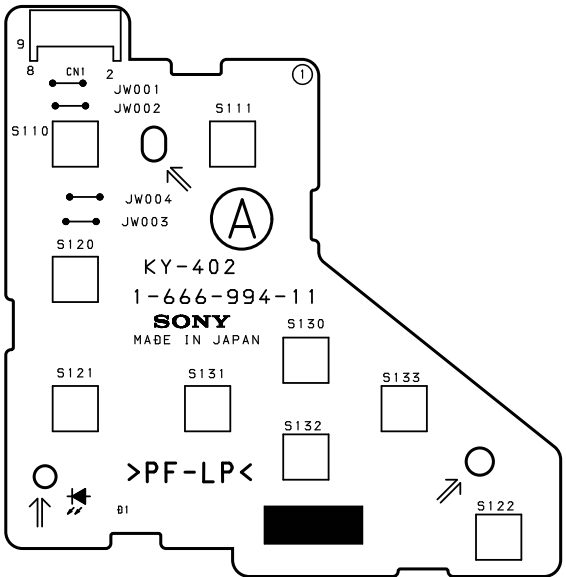
(Except UP-2300/2300P)



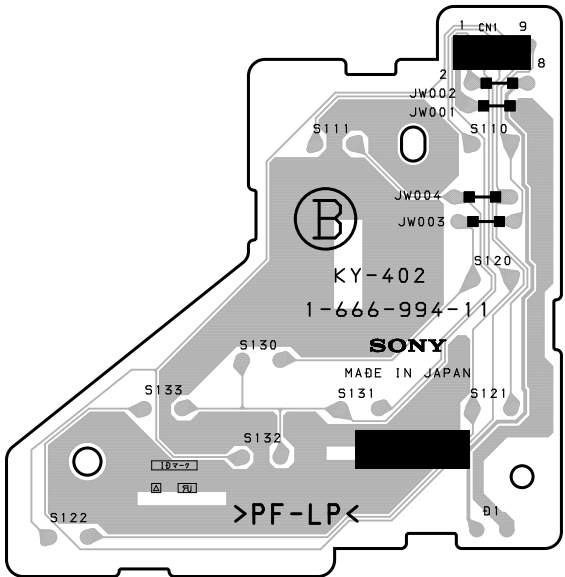
CN-1520 A SIDE
1-666-991-11



CN-1520 B SIDE
1-666-991-11



KY-402 A SIDE
1-666-994-11



KY-402 B SIDE
1-666-994-11

POWER
SUPPLY

| | |
|-----------|---|
| D+5V | 5 |
| D+5V | 4 |
| D GND | 3 |
| D GND | 2 |
| P COOLING | 1 |

| | |
|-------------|---|
| A+6V | 1 |
| GND (A+6V) | 2 |
| GND (A+6V) | 3 |
| A-6V | 4 |
| A+12V | 5 |
| D+5V | 6 |
| GND (A+12V) | 7 |
| D GND | 8 |

| | |
|-------|----|
| H V | 1 |
| H V | 2 |
| H V | 3 |
| H V | 4 |
| H V | 5 |
| H V | 6 |
| H V | 7 |
| H GND | 8 |
| H GND | 9 |
| H GND | 10 |
| H GND | 11 |
| H GND | 12 |
| H GND | 13 |
| H GND | 14 |

| | |
|------------|----|
| H V2 | 1 |
| H V GND | 2 |
| D GND | 3 |
| D+5V | 4 |
| M+12V | 5 |
| M+12V | 6 |
| M GND | 7 |
| S M GND | 8 |
| S M GND | 9 |
| STEP MOTOR | 10 |
| STEP MOTOR | 11 |
| V CONT | 12 |
| V C GND | 13 |

| | |
|-------|----|
| H GND | 1 |
| H GND | 2 |
| H GND | 3 |
| H GND | 4 |
| H GND | 5 |
| H V | 6 |
| H V | 7 |
| H V | 8 |
| H V | 9 |
| H V | 10 |
| H V | 11 |
| H V | 12 |
| H V | 13 |
| H V | 14 |
| H V | 15 |
| H V | 16 |
| H GND | 17 |
| H GND | 18 |
| H GND | 19 |
| H GND | 20 |
| H GND | 21 |

| | |
|------------|----|
| GND L | 19 |
| VDD | 18 |
| GND L | 17 |
| VDD | 16 |
| HEAD CK | 15 |
| THERM1 | 14 |
| THERM2 | 13 |
| HED BE0 | 12 |
| nHED LATCH | 11 |
| nHED STRB | 10 |
| HED D1 | 9 |
| HED D2 | 8 |
| HED D3 | 7 |
| HED D4 | 6 |
| HED D5 | 5 |
| HED D6 | 4 |
| HED D7 | 3 |
| HED D8 | 2 |
| GND L | 1 |

HEAD

| | |
|------------|-------|
| HEAD MTR | CN016 |
| 1 HED MTR0 | |
| 2 HED MTR1 | |

| | |
|-------------|-------|
| TRAY MTR | CN013 |
| 1 TRAY MTR0 | |
| 2 TRAY MTR1 | |

| | |
|------------|-------|
| RBN MTR | CN014 |
| 1 RBN MTR0 | |
| 2 RBN MTR1 | |

| | |
|-------------|-------|
| LOAD MTR | CN012 |
| 1 LOAD MTR0 | |
| 2 LOAD MTR1 | |

| | |
|------------|-------|
| FAN MTR | CN017 |
| 1 FAN MTR0 | |
| 2 FAN MTR1 | |

| | |
|-------|----|
| H V | 1 |
| H V | 2 |
| H V | 3 |
| H V | 4 |
| H V | 5 |
| H V | 6 |
| H V | 7 |
| H GND | 8 |
| H GND | 9 |
| H GND | 10 |
| H GND | 11 |
| H GND | 12 |
| H GND | 13 |
| H GND | 14 |

| | |
|------------|----|
| H V2 | 1 |
| H V GND | 2 |
| D GND | 3 |
| D+5V | 4 |
| M+12V | 5 |
| M+12V | 6 |
| M GND | 7 |
| S M GND | 8 |
| S M GND | 9 |
| STEP MOTOR | 10 |
| STEP MOTOR | 11 |
| V CONT | 12 |
| V C GND | 13 |

| | |
|-------|----|
| H GND | 21 |
| H GND | 20 |
| H GND | 19 |
| H GND | 18 |
| H GND | 17 |
| H V | 16 |
| H V | 15 |
| H V | 14 |
| H V | 13 |
| H V | 12 |
| H V | 11 |
| H V | 10 |
| H V | 9 |
| H V | 8 |
| H V | 7 |
| H V | 6 |
| H GND | 5 |
| H GND | 4 |
| H GND | 3 |
| H GND | 2 |
| H GND | 1 |

| | |
|------------|----|
| GND L | 1 |
| VDD | 2 |
| GND L | 3 |
| VDD | 4 |
| HEAD CK | 5 |
| THERM1 | 6 |
| THERM2 | 7 |
| HED BE0 | 8 |
| nHED LATCH | 9 |
| nHED STRB | 10 |
| HED D1 | 11 |
| HED D2 | 12 |
| HED D3 | 13 |
| HED D4 | 14 |
| HED D5 | 15 |
| HED D6 | 16 |
| HED D7 | 17 |
| HED D8 | 18 |
| GND L | 19 |

PRT-11

| | |
|-----------|---|
| KICK OUT | 1 |
| GND | 2 |
| KICK MTR0 | 3 |
| KICK MTR1 | 4 |

| | |
|--------------|---|
| STEP MTR (+) | 1 |
| STEP MTR (+) | 2 |
| PRT nB | 3 |
| PLT B | 4 |
| PRT nA | 5 |
| PLT A | 6 |

| | |
|------------|----|
| GND | 1 |
| 5V | 2 |
| LOAD TMG | 3 |
| EJCT TMG | 4 |
| TRAY POS0 | 5 |
| TRAY POS1 | 6 |
| LOAD FG | 7 |
| PP SIZE | 8 |
| PAPER | 9 |
| 5V | 10 |
| SENS CHECK | 11 |
| GND | 12 |

| | |
|---------------|----|
| D GND | 1 |
| PLT POS | 2 |
| PLT CV | 3 |
| RBN CST | 4 |
| HED POS0 | 5 |
| HED POS1 | 6 |
| RBN FG | 7 |
| RBN CD0 | 8 |
| RBN CD1 | 9 |
| RBN BCD | 10 |
| PP JAM | 11 |
| RBN CD0 (LED) | 12 |
| RBN CD1 (LED) | 13 |
| RBN BCD (LED) | 14 |
| PP JAM (LED) | 15 |
| SCL | 16 |
| SDA | 17 |
| 5V | 18 |
| 5V | 19 |
| D GND | 20 |
| 12V | 21 |
| A GND | 22 |

| | |
|----------|---|
| KEYDATA0 | 1 |
| KEYDATA1 | 2 |
| KEYDATA2 | 3 |
| KEYDATA3 | 4 |
| KEY EN1 | 5 |
| KEY EN2 | 6 |
| KEY EN3 | 7 |
| PWR LED | 8 |
| GND | 9 |

| | |
|-----------|----|
| PRT D0 | 1 |
| PRT D1 | 2 |
| PRT D2 | 3 |
| PRT D3 | 4 |
| PRT D4 | 5 |
| PRT D5 | 6 |
| PRT D6 | 7 |
| PRT D7 | 8 |
| GND | 9 |
| PRT CLK | 10 |
| nPRT DREQ | 11 |
| GND | 12 |
| COLOR0 | 13 |
| COLOR1 | 14 |

| | |
|------------|----|
| GND | 1 |
| KEYDATA0 | 2 |
| KEYDATA1 | 3 |
| KEYDATA2 | 4 |
| KEYDATA3 | 5 |
| KEY EN1 | 6 |
| KEY EN2 | 7 |
| KEY EN3 | 8 |
| SY PRT RXD | 9 |
| PRT SY TXD | 10 |
| PRT SY RTS | 11 |
| nRESET | 13 |
| GND | 14 |

SE-418

| | |
|----------|-------|
| LOAD TMG | CN105 |
| 1 LED | |
| 2 PHTR | |
| 3 GND | |

| | |
|------------|----|
| GND | 1 |
| 5V | 2 |
| LOAD TMG | 3 |
| EJCT TMG | 4 |
| TRAY POS0 | 5 |
| TRAY POS1 | 6 |
| LOAD FG | 7 |
| PP SIZE | 8 |
| PAPER | 9 |
| 5V | 10 |
| SENS CHECK | 11 |
| GND | 12 |

| | |
|-----------------|-------|
| PLT HOME/PLT CV | CN102 |
| 1 LED | |
| 2 PHTR | |
| 3 SW | |
| 4 GND | |

| | |
|---------------|----|
| D GND | 1 |
| PLT POS | 2 |
| PLT CV | 3 |
| RBN CST | 4 |
| HED POS0 | 5 |
| HED POS1 | 6 |
| RBN FG | 7 |
| RBN CD0 | 8 |
| RBN CD1 | 9 |
| RBN BCD | 10 |
| PP JAM | 11 |
| RBN CD0 (LED) | 12 |
| RBN CD1 (LED) | 13 |
| RBN BCD (LED) | 14 |
| PP JAM (LED) | 15 |
| SCL | 16 |
| SDA | 17 |
| 5V | 18 |
| 5V | 19 |
| D GND | 20 |
| 12V | 21 |
| A GND | 22 |

| | |
|-----------|---|
| KEYDATA 0 | 1 |
| KEYDATA 1 | 2 |
| KEYDATA 2 | 3 |
| KEYDATA 3 | 4 |
| nKEYEN 1 | 5 |
| nKEYEN 2 | 6 |
| nKEYEN 3 | 7 |
| POWER LED | 8 |
| GND | 9 |

| | |
|-----------|---|
| KEYDATA 0 | 1 |
| KEYDATA 1 | 2 |
| KEYDATA 2 | 3 |
| KEYDATA 3 | 4 |
| nKEYEN 1 | 5 |
| nKEYEN 2 | 6 |
| nKEYEN 3 | 7 |
| POWER LED | 8 |
| GND | 9 |

| | |
|-----------|---|
| KEYDATA 0 | 1 |
| KEYDATA 1 | 2 |
| KEYDATA 2 | 3 |
| KEYDATA 3 | 4 |
| nKEYEN 1 | 5 |
| nKEYEN 2 | 6 |
| nKEYEN 3 | 7 |
| POWER LED | 8 |
| GND | 9 |

| | |
|----------|-------|
| EJCT TMG | CN104 |
| 1 LED | |
| 2 PHTR | |
| 3 GND | |

| | |
|-------------------|-------|
| TRAY POS | CN103 |
| 1 TRY POS0 (LED) | |
| 2 TRY POS1 (LED) | |
| 3 TRY POS0 (PHTR) | |
| 4 TRY POS1 (PHTR) | |
| 5 GND | |

| | |
|----------------|-------|
| PP SZ/PAPER | CN102 |
| 1 PP SZ (LED) | |
| 2 PAPER (LED) | |
| 3 PP SZ (PHTR) | |
| 4 PAPER (PHTR) | |
| 5 GND | |

| | |
|-----------------|-------|
| PLT HOME/PLT CV | CN102 |
| 1 LED | |
| 2 PHTR | |
| 3 SW | |
| 4 GND | |

| | |
|---------|-------|
| RBN CST | CN105 |
| 1 SW | |
| 2 GND | |

| | |
|----------|-------|
| HEAD POS | CN107 |
| 1 LED1 | |
| 2 LED2 | |
| 3 PHTR1 | |
| 4 PHTR2 | |
| 5 GND | |

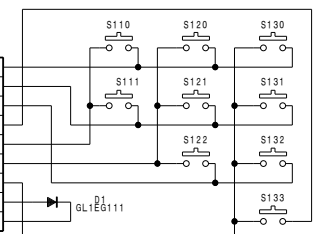
| | |
|-----------|-------|
| PAPER JAM | CN106 |
| 1 LED | |
| 2 PHTR | |
| 3 GND | |

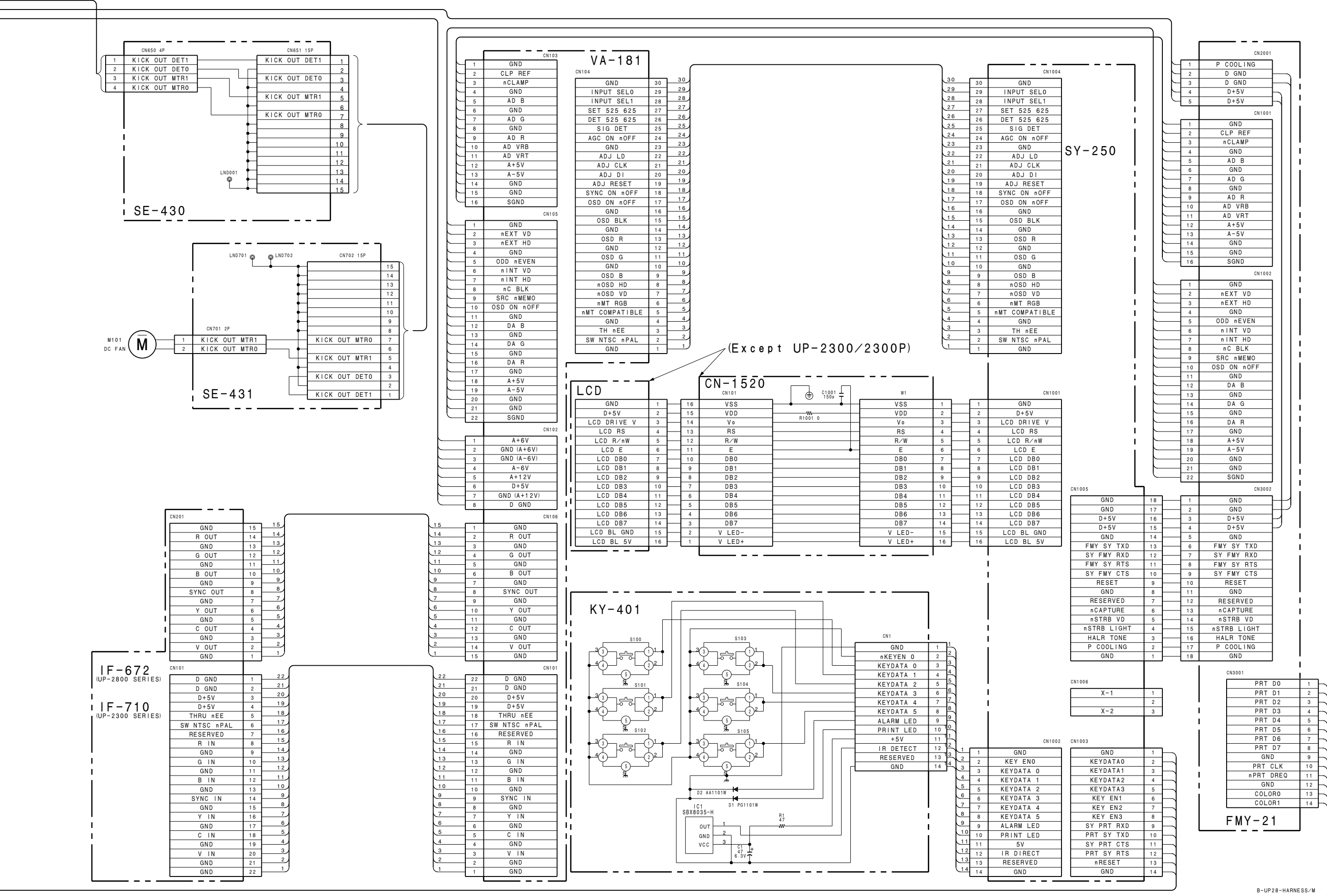
| | |
|---------------|-------|
| RBN CD (PHTR) | CN103 |
| 1 PHTR1 | |
| 2 PHTR2 | |
| 3 GND | |

| | |
|------------------------|-------|
| RBN CD (LED) / RBN BCD | CN104 |
| 1 LED1 | |
| 2 LED2 | |
| 3 LED | |
| 4 PHTR | |
| 5 GND | |

KY-402

| | |
|-----------|---|
| KEYDATA 0 | 1 |
| KEYDATA 1 | 2 |
| KEYDATA 2 | 3 |
| KEYDATA 3 | 4 |
| nKEYEN 1 | 5 |
| nKEYEN 2 | 6 |
| nKEYEN 3 | 7 |
| POWER LED | 8 |
| GND | 9 |





FMY-11

CN1001
CN1002
CN2001
CN3001
CN3002
CNI103

IC1003
IC1001
IC1002
IC1003
IC1004
IC1005
*IC2002
IC2003
IC2004
*IC2005
IC2006
IC2007
IC2008
IC2009
IC2010
IC2011
*IC2012
*IC2013
IC2014
*IC3002
IC3003
IC3005
IC3006
IC3008
IC3010
*IC3011
IC3012
IC3013
IC3017
IC3018
IC3019
*IC3020
IC3021
IC4001
*IC5001
*IC5002
*IC5003
*IC5004
*IC5005
*IC5006
*IC5007
*IC5008
*IC5009
*IC5010
*IC5011
*IC5012
*IC5013
*IC5014
*IC5015

- *Q1001
- *Q1002
- *Q1003
- *Q1004
- *Q1005
- *Q1006
- Q1007

S101

X1001
X3001

* : B SIDE

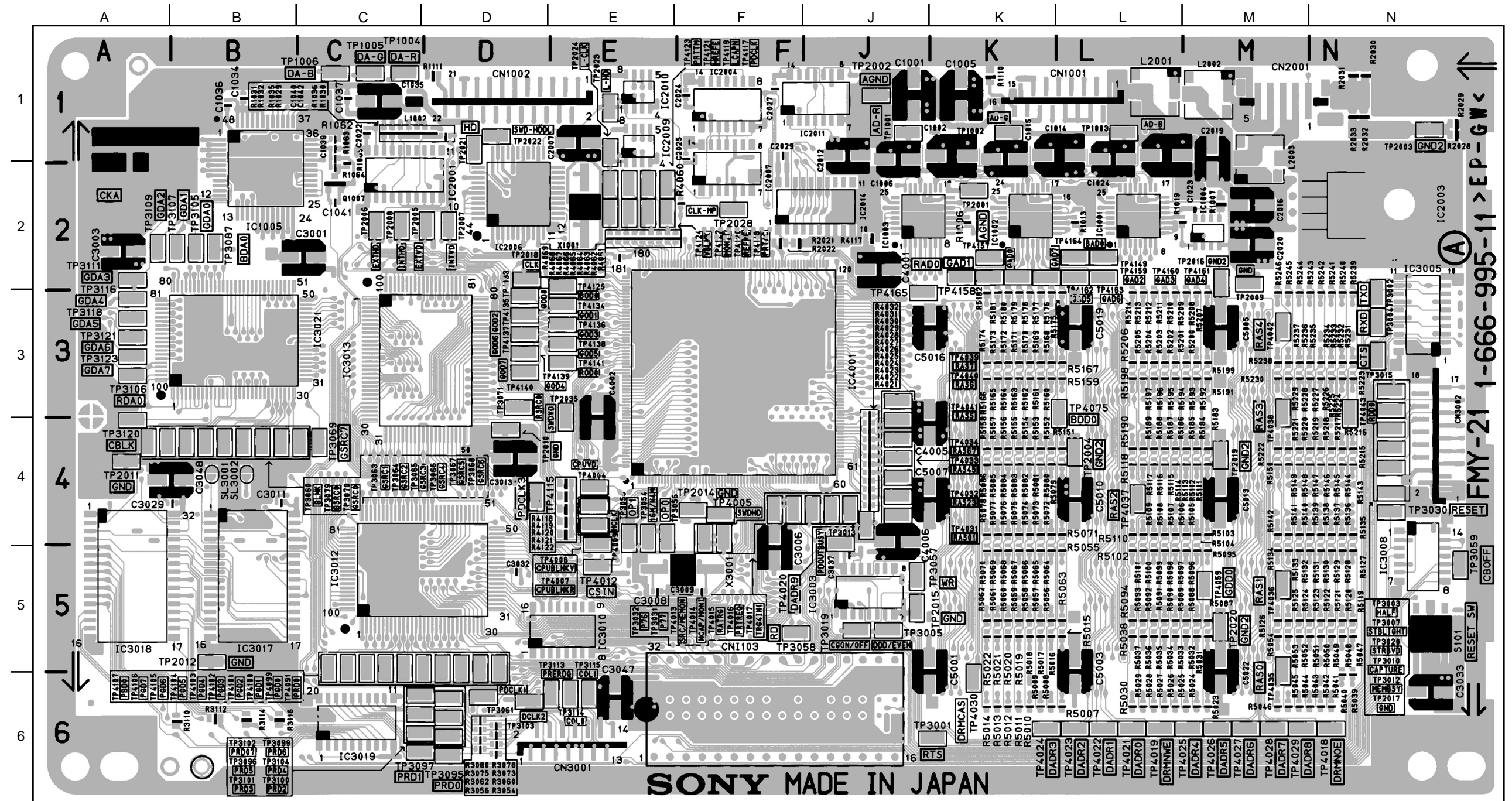
L-1
D-1
M-1
E-6
N-3
F-5

L-2
K-2
J-2
M-2
B-2
D-2
D-2
N-2
F-1
C-1
D-2
F-2
F-2
E-1
E-1
J-1
J-2
J-1
J-2
J-5
J-5
N-2
F-5
N-5
E-5
D-6
C-5
C-3
B-5
A-5
C-6
B-2
C-3
J-3
L-3
L-5
L-5
L-3
L-4
M-3
M-5
M-3
M-4
M-5
N-5
N-3
N-3
N-4
N-5

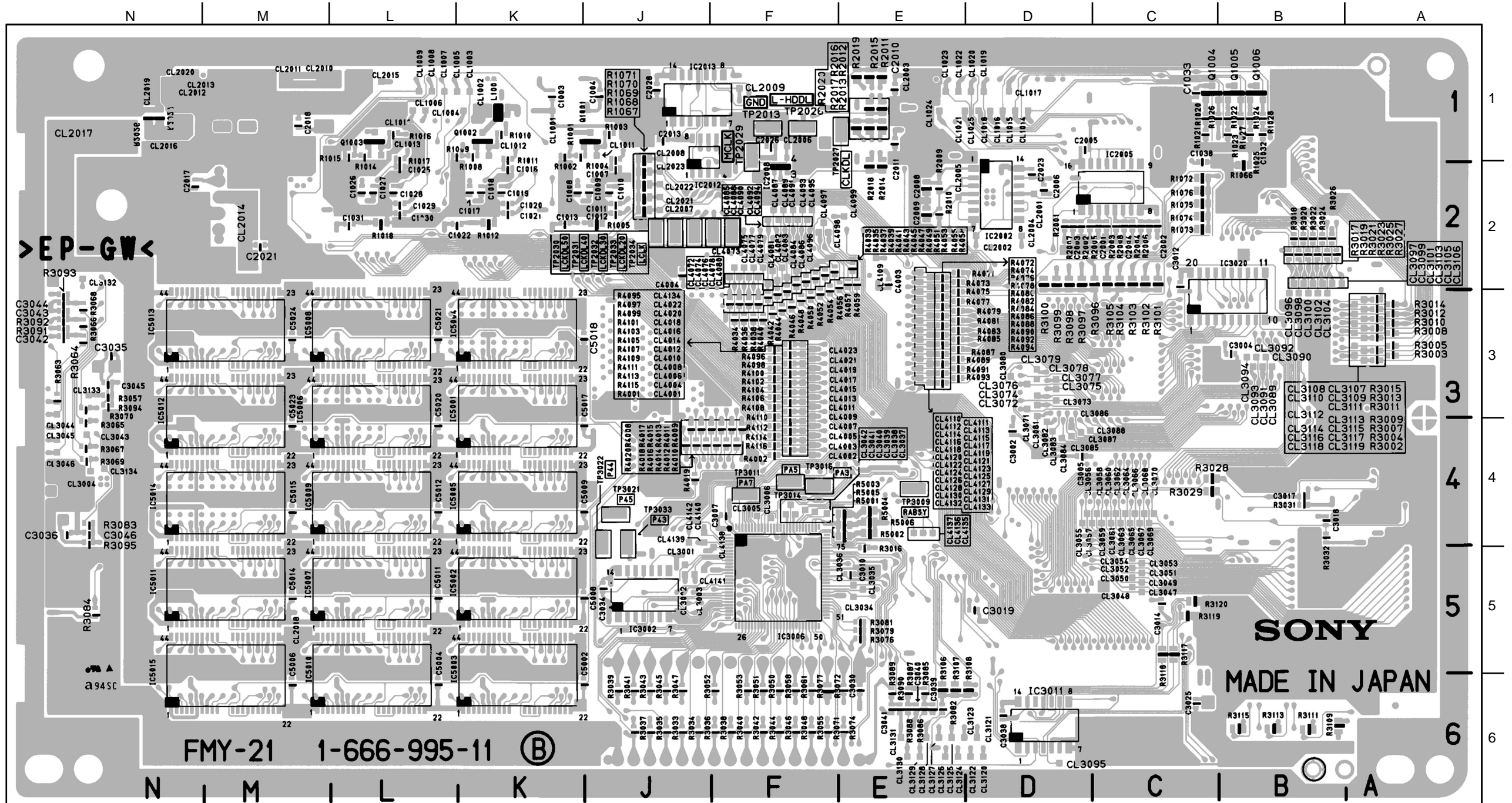
J-1
K-1
L-1
C-1
B-1
B-1
C-2

N-5

E-2
F-5

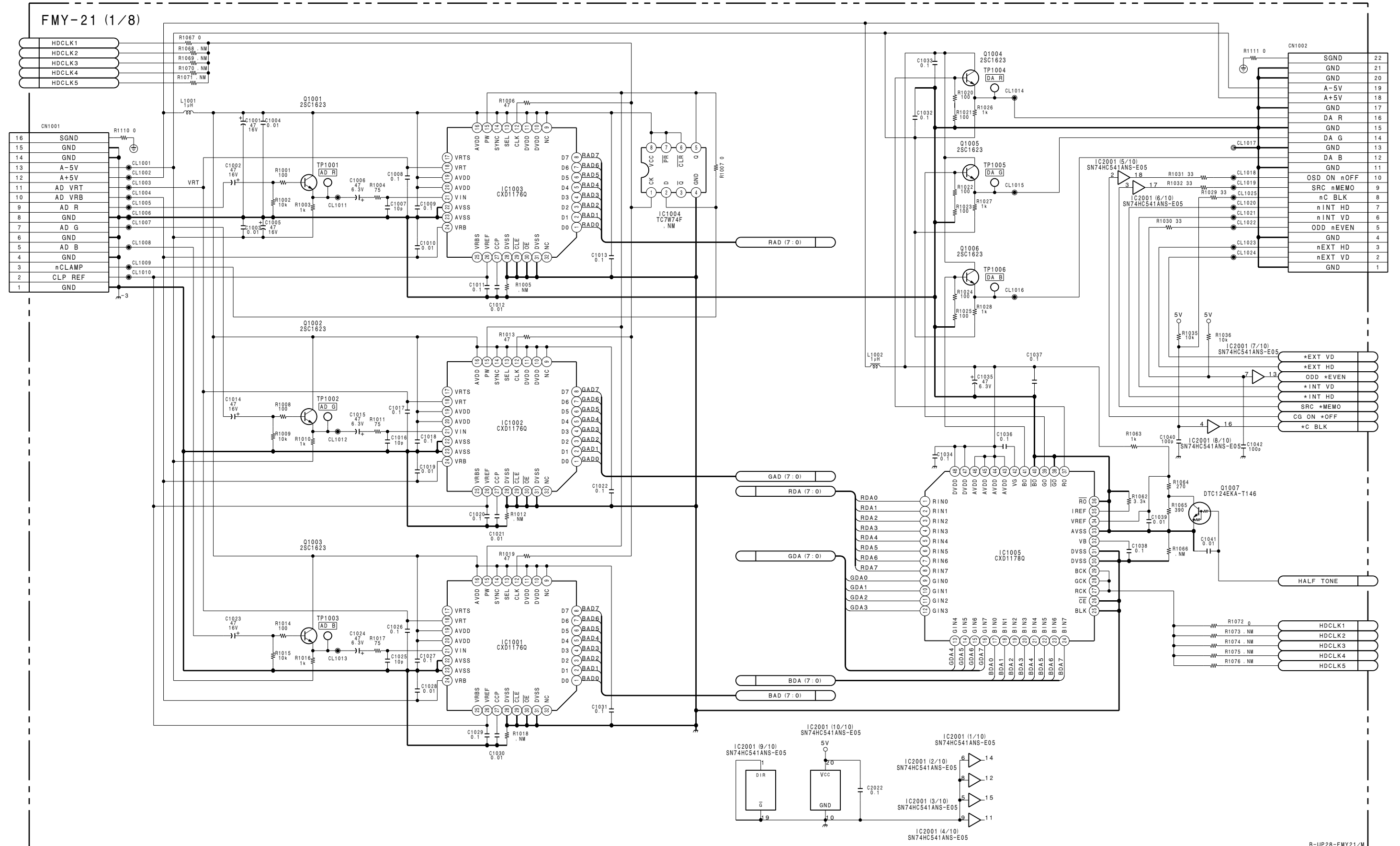


FMY-21 A SIDE
1-666-995-11

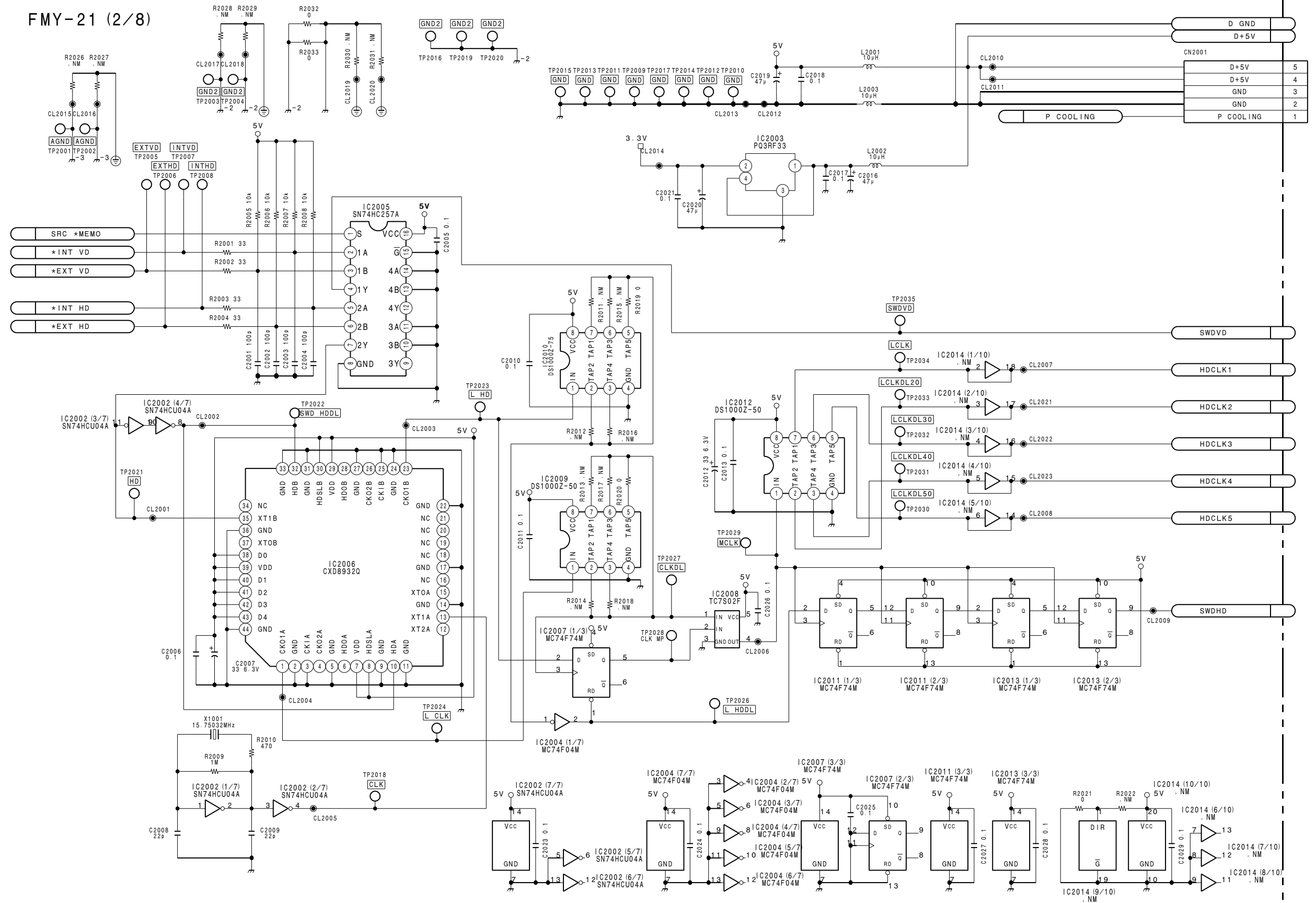


FMY-21 B SIDE
1-666-995-11

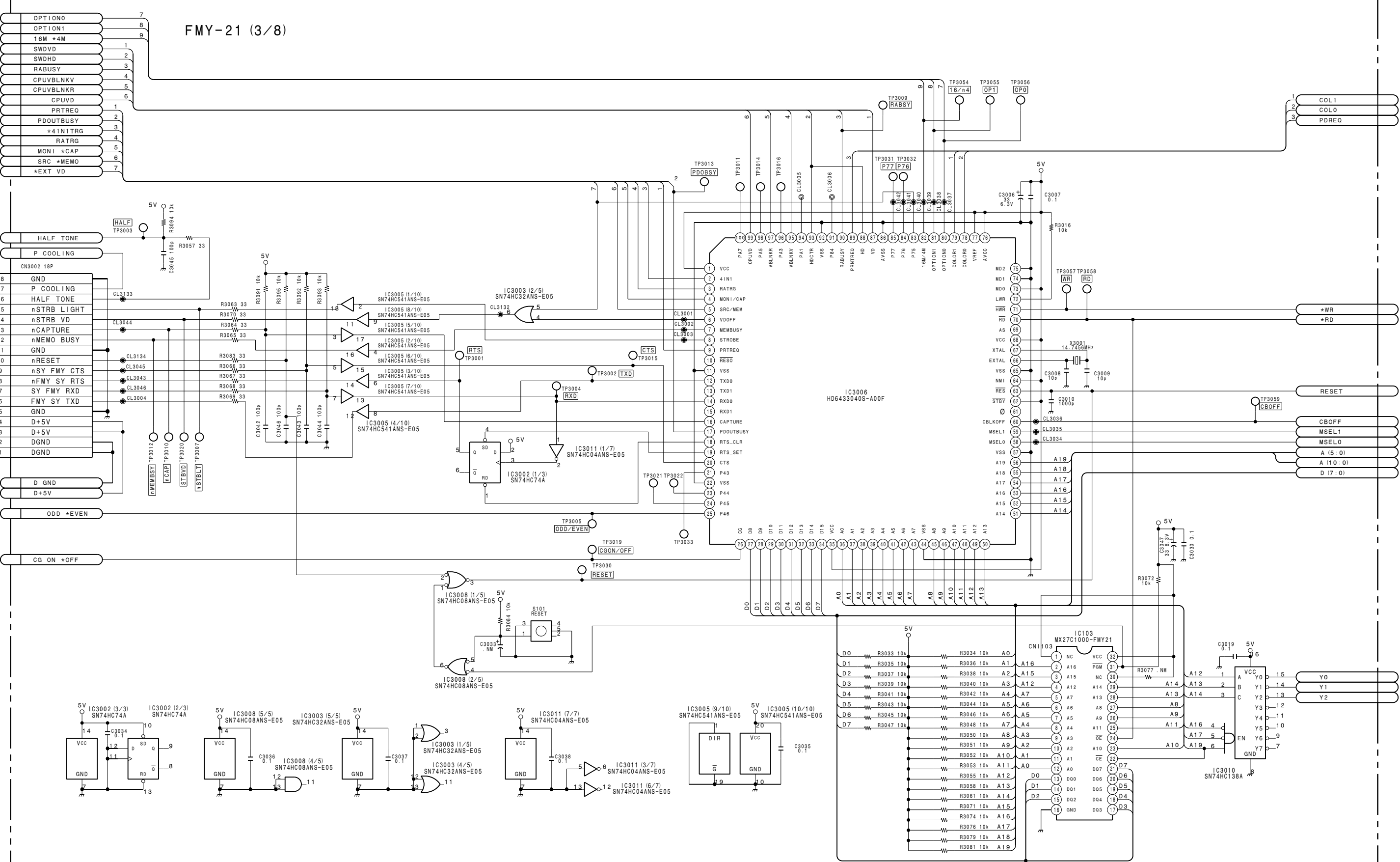
DIGITAL VIDEO

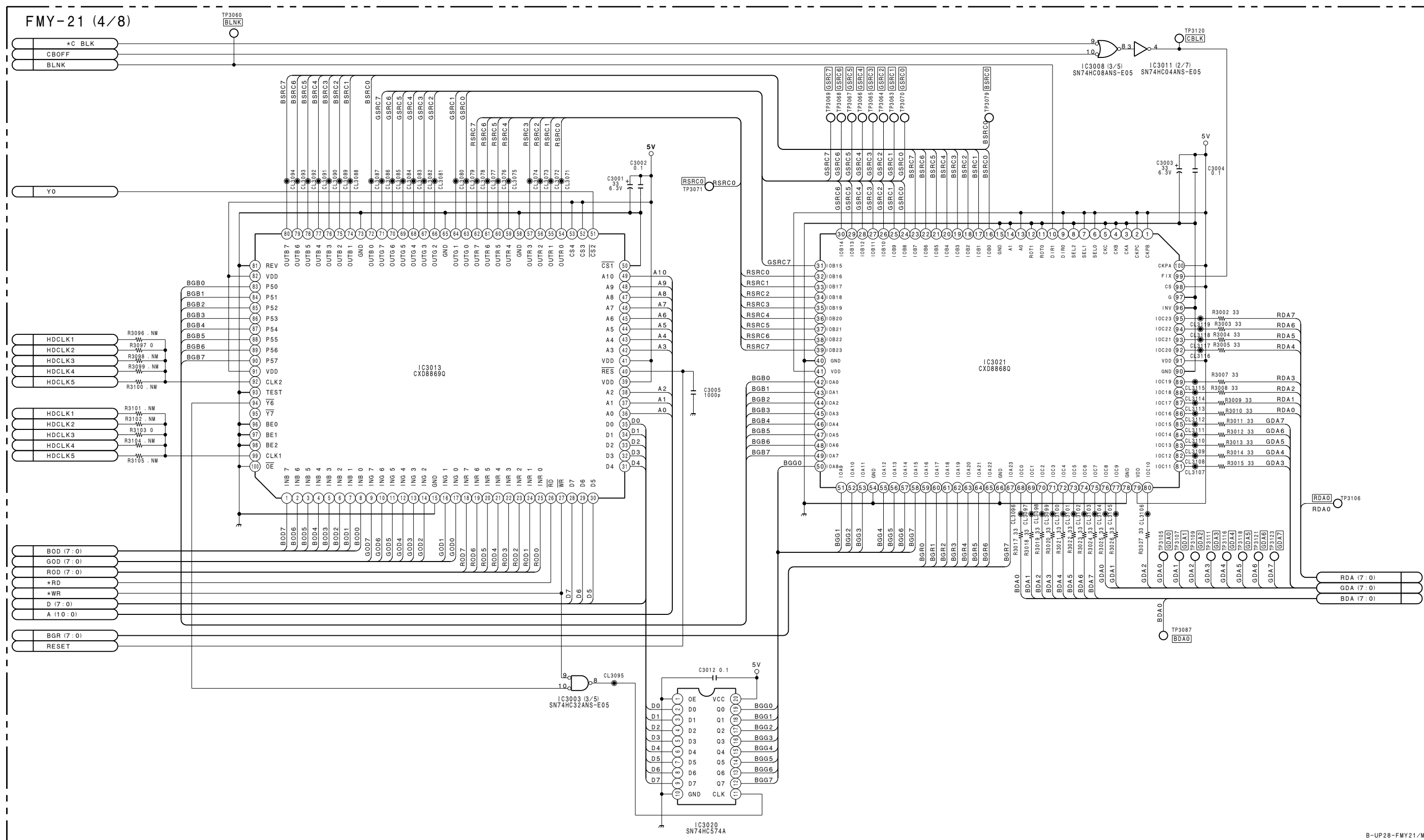


FMY-21 (2/8)

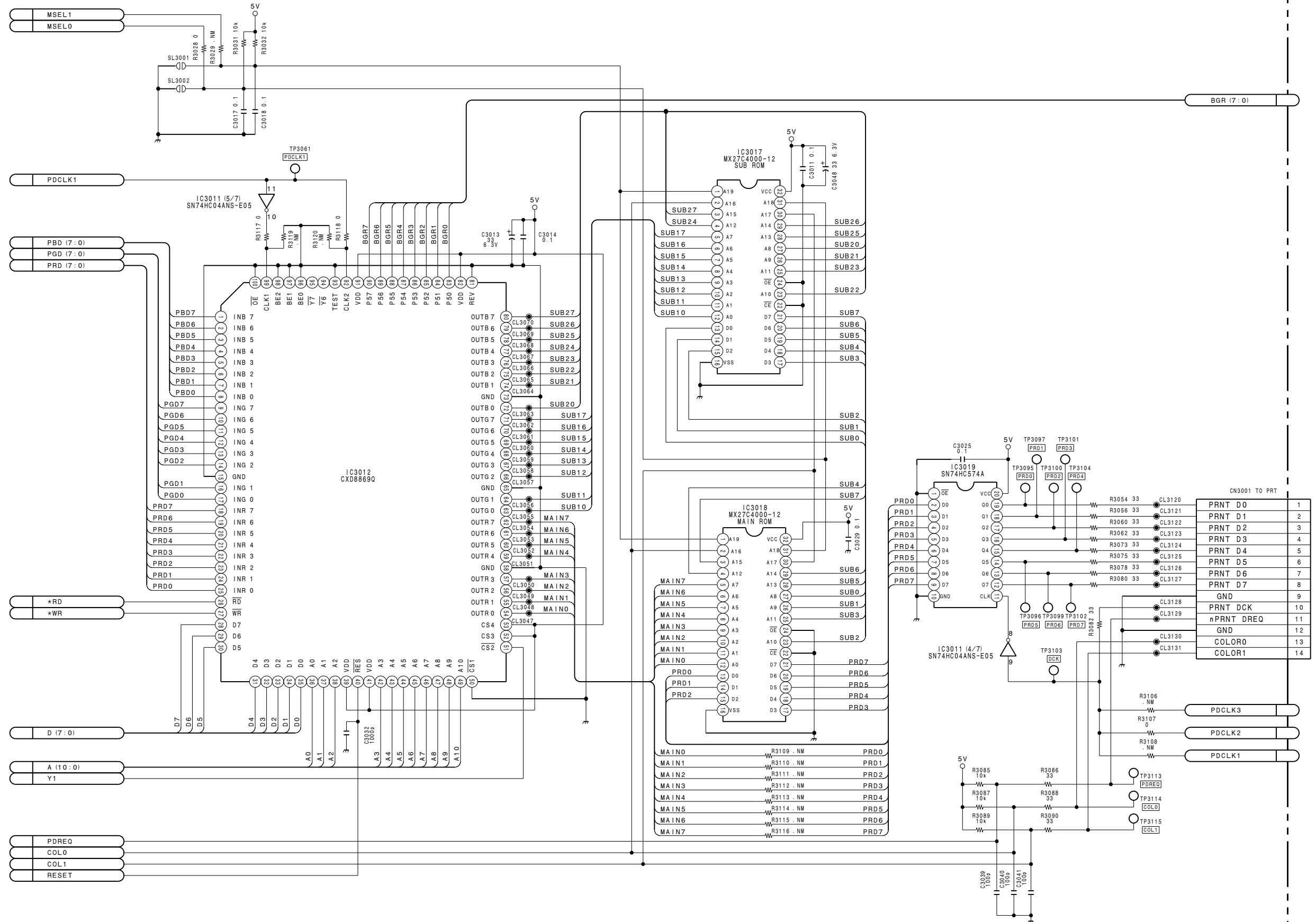


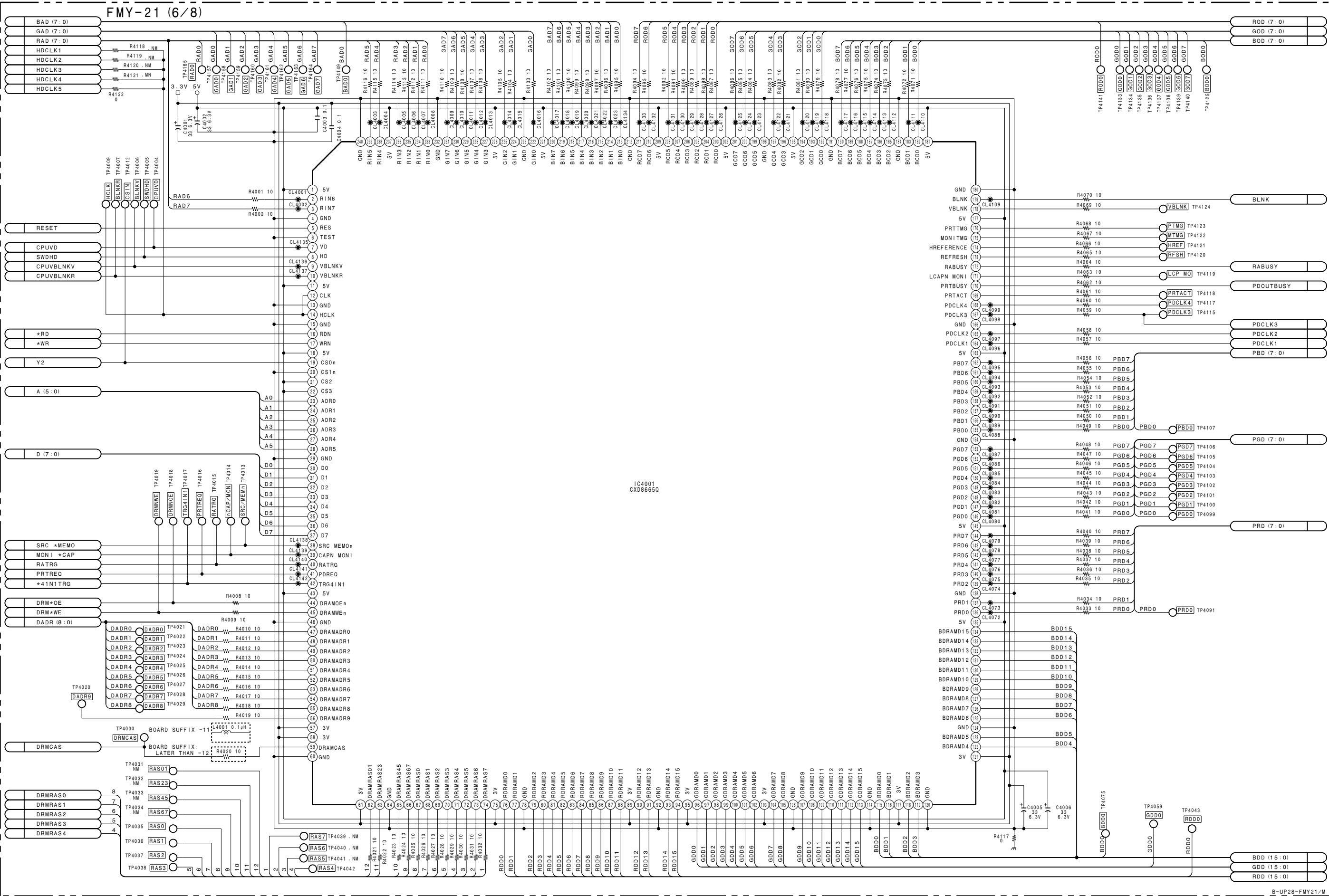
FMY-21 (3/8)





FMY-21 (5/8)





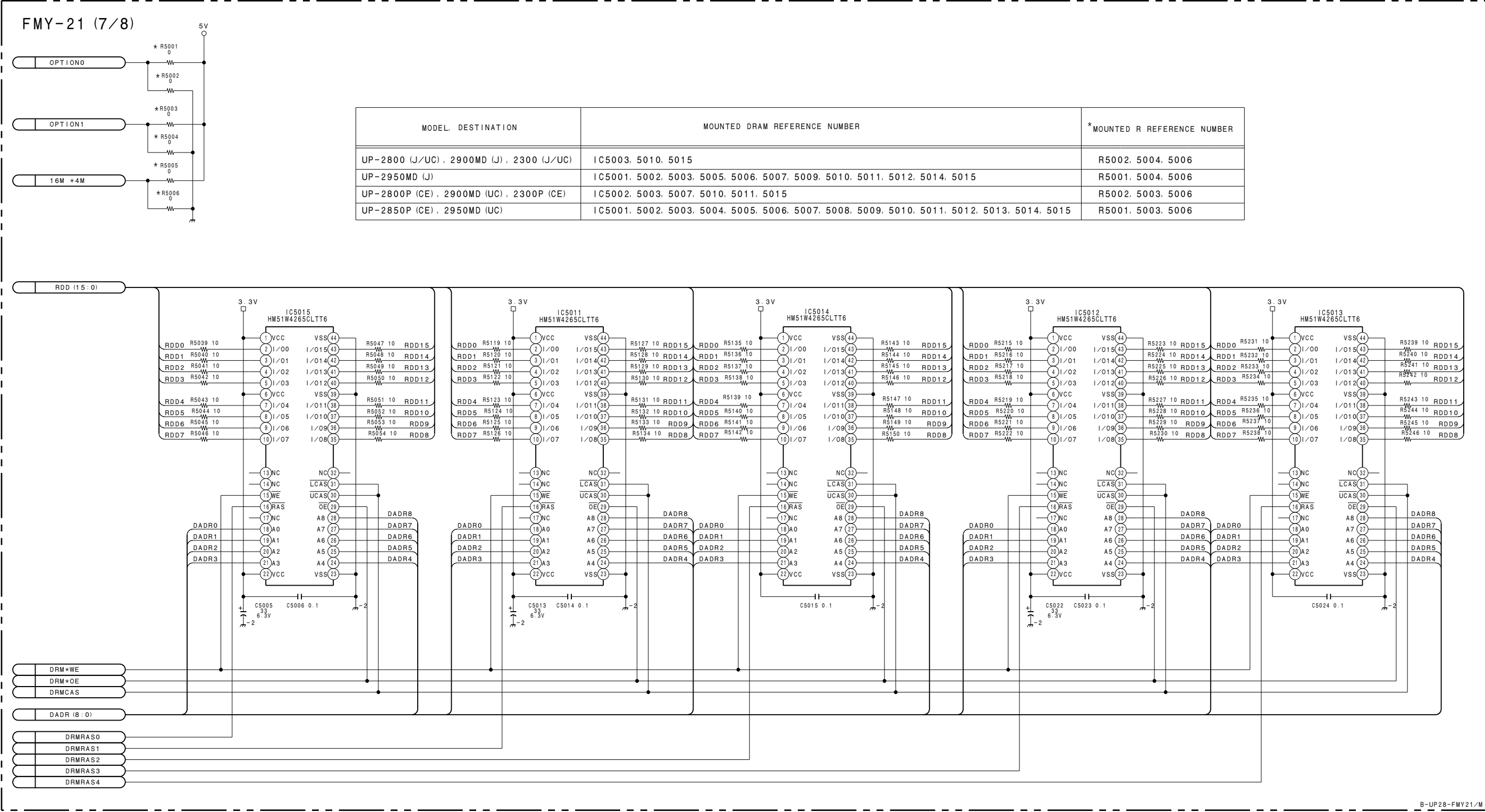
1

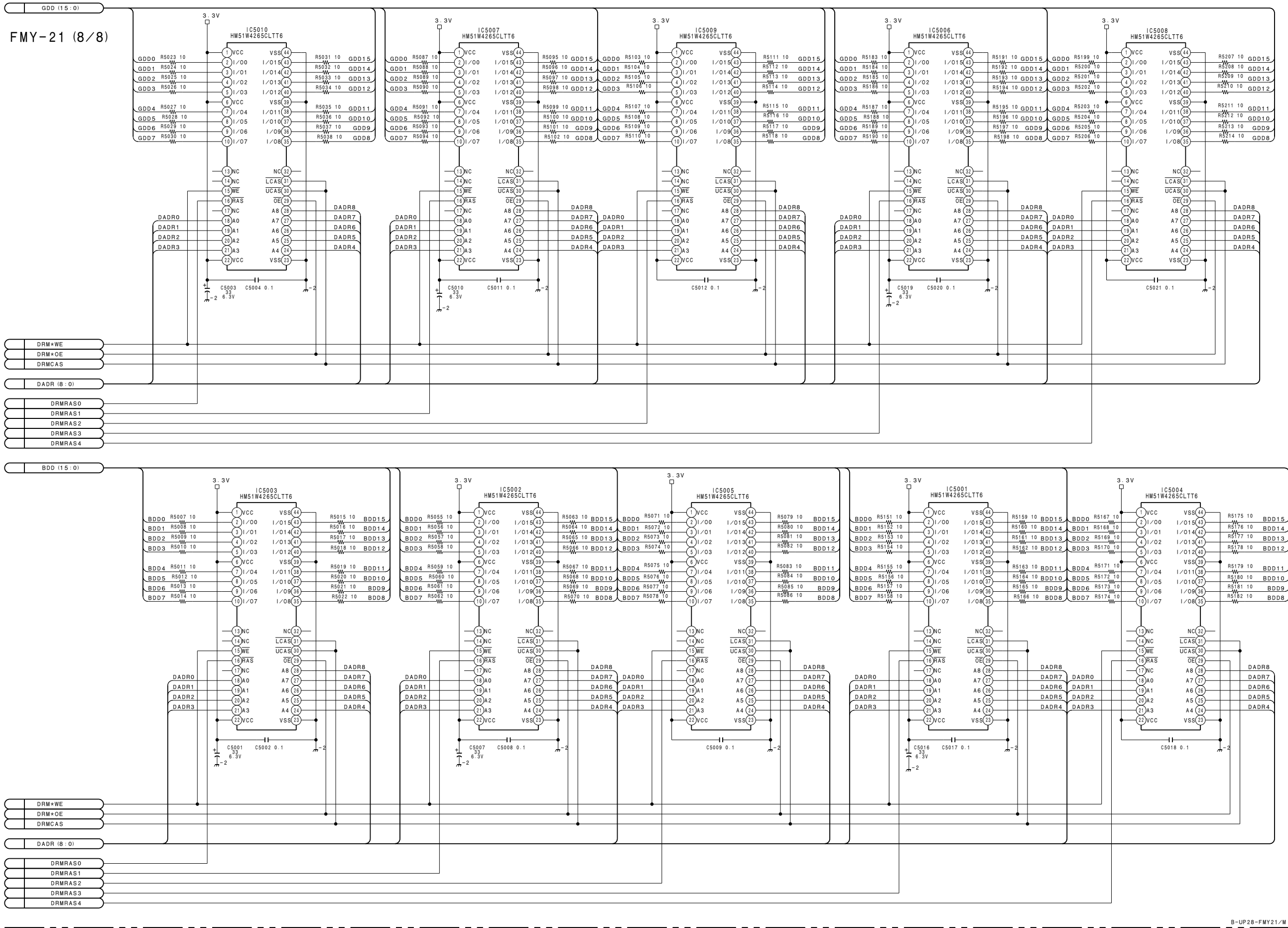
2

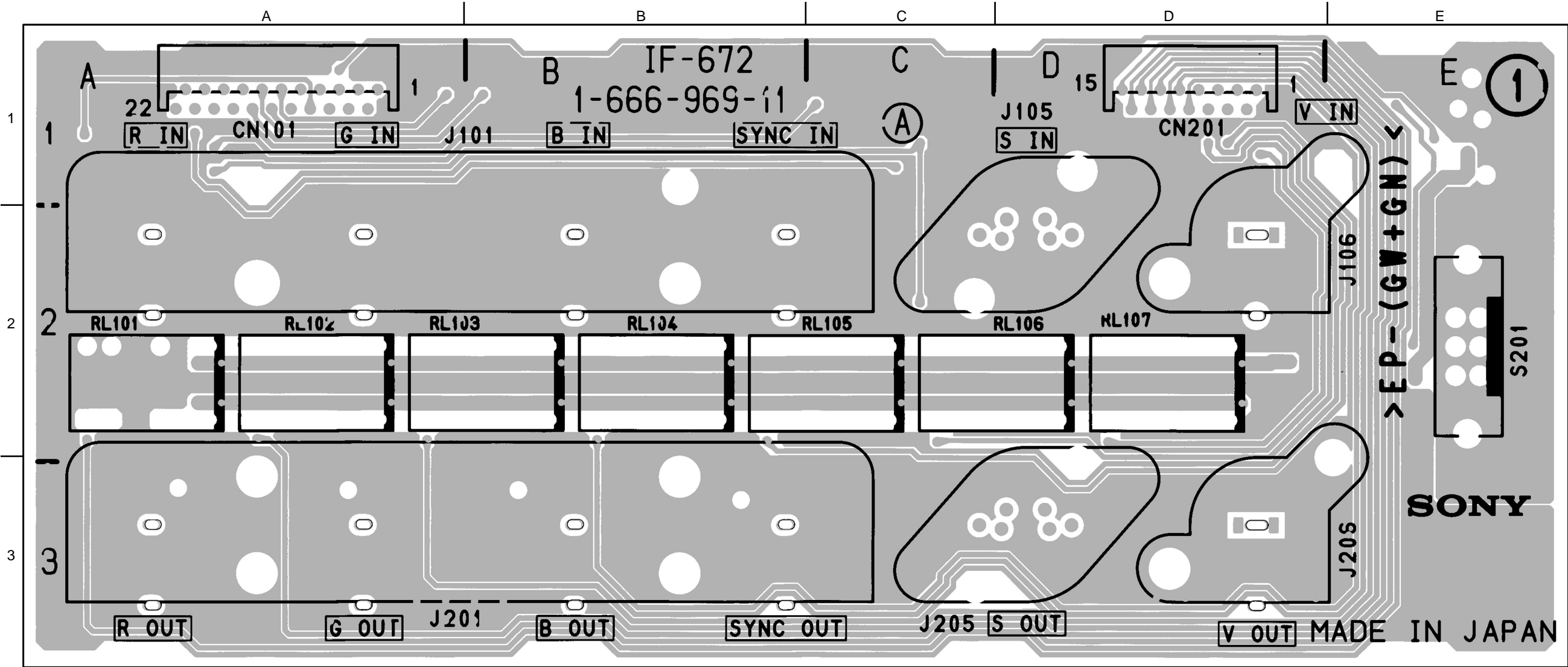
3

4

5

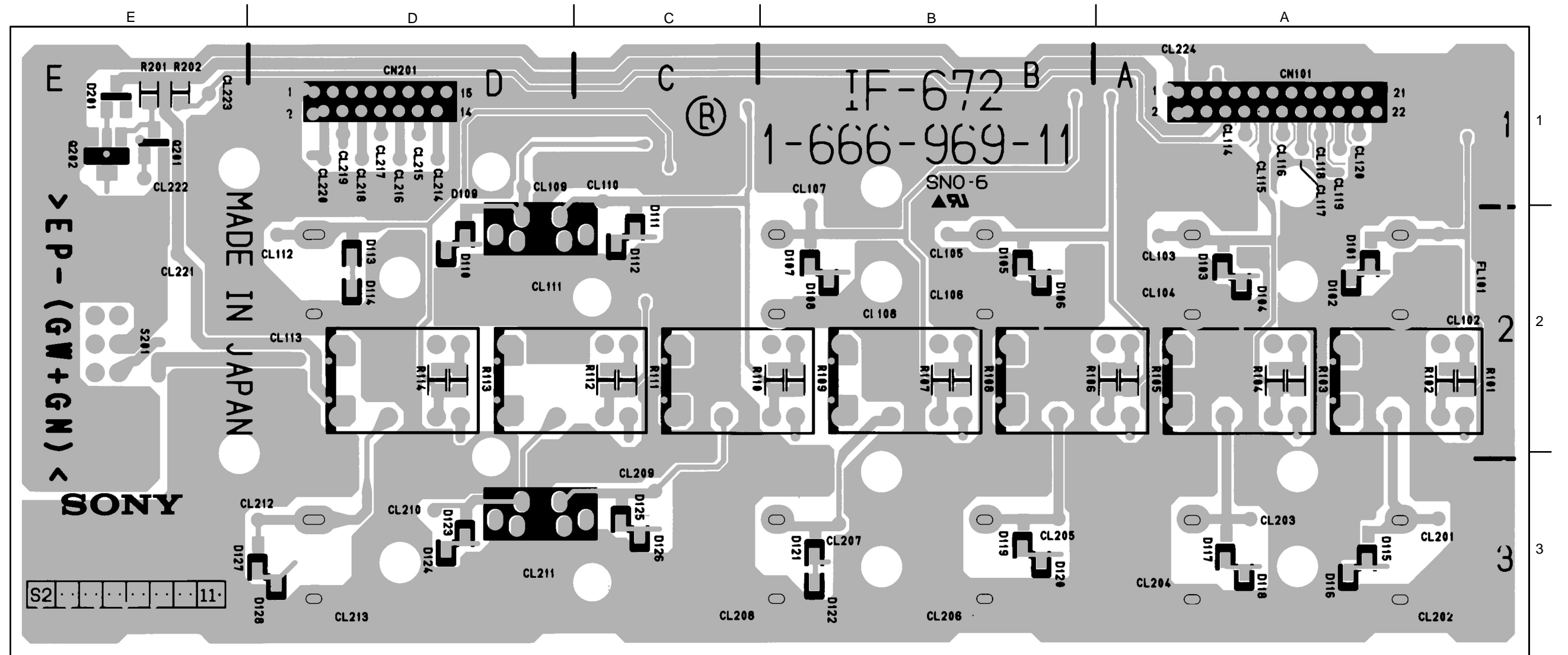






IF-672 A SIDE
1-666-969-11

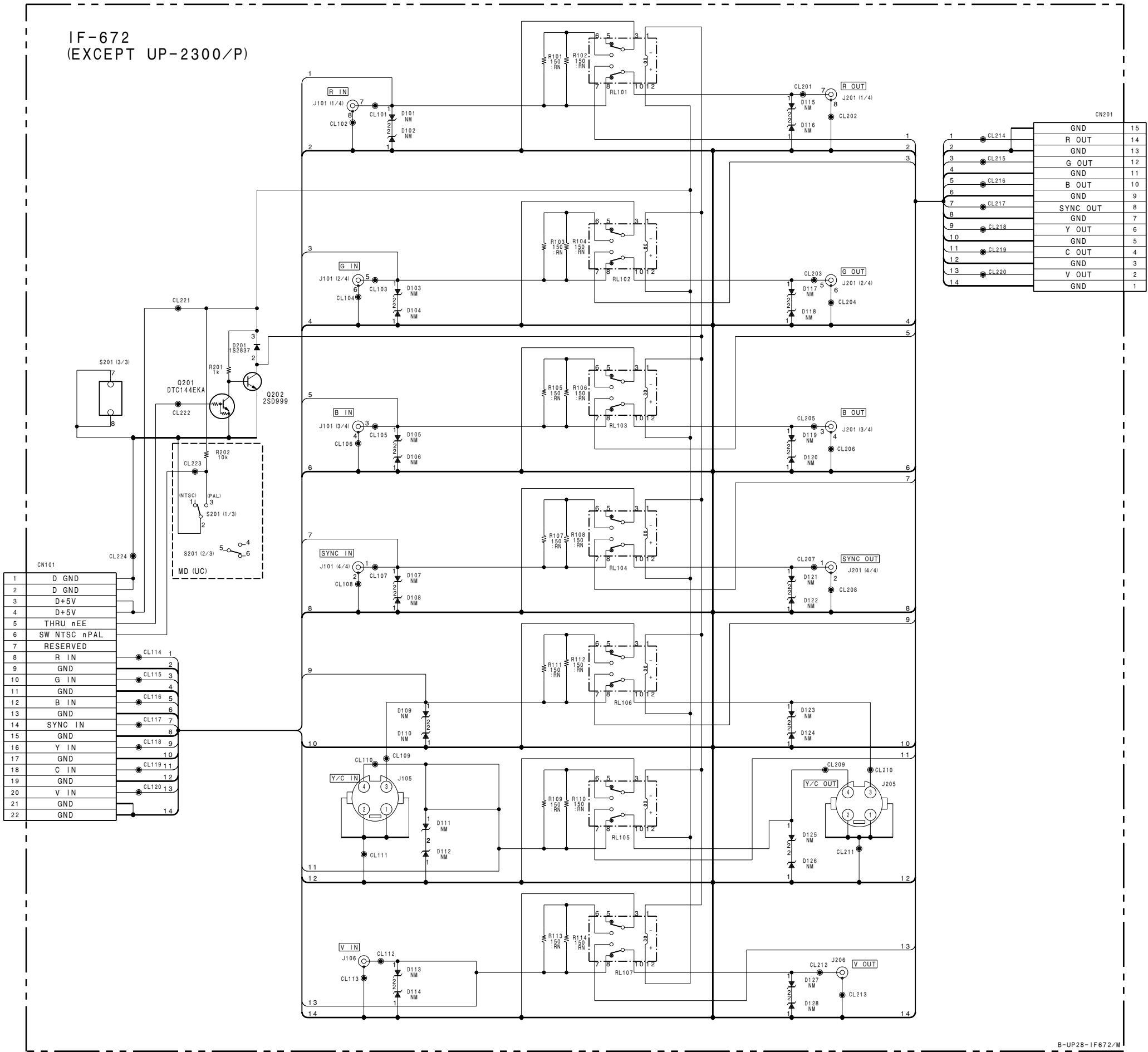
| | | | | | |
|--------|-----|-------|-----|----------|-----|
| IF-672 | | | | | |
| CN101 | A-1 | *D113 | D-2 | *D128 | D-3 |
| CN201 | D-1 | *D114 | D-2 | *D201 | E-1 |
| | | *D115 | A-3 | | |
| *D101 | A-2 | *D116 | A-3 | J101 | A-2 |
| *D102 | A-2 | *D117 | A-3 | J105 | D-2 |
| *D103 | A-2 | *D118 | A-3 | J106 | D-2 |
| *D104 | A-2 | *D119 | B-3 | J201 | A-3 |
| *D105 | B-2 | *D120 | B-3 | J205 | D-3 |
| *D106 | B-2 | *D121 | B-3 | J206 | D-3 |
| *D107 | B-2 | *D122 | B-3 | | |
| *D108 | B-2 | *D123 | D-3 | *Q201 | E-1 |
| *D109 | D-2 | *D124 | D-3 | *Q202 | E-1 |
| *D110 | D-2 | *D125 | C-3 | | |
| *D111 | C-2 | *D126 | C-3 | S201 | E-2 |
| *D112 | C-2 | *D127 | D-3 | | |
| | | | | *:B SIDE | |



IF-672 B SIDE
1-666-969-11

SWITCH/TERMINAL

IF-672
(EXCEPT UP-2300/P)

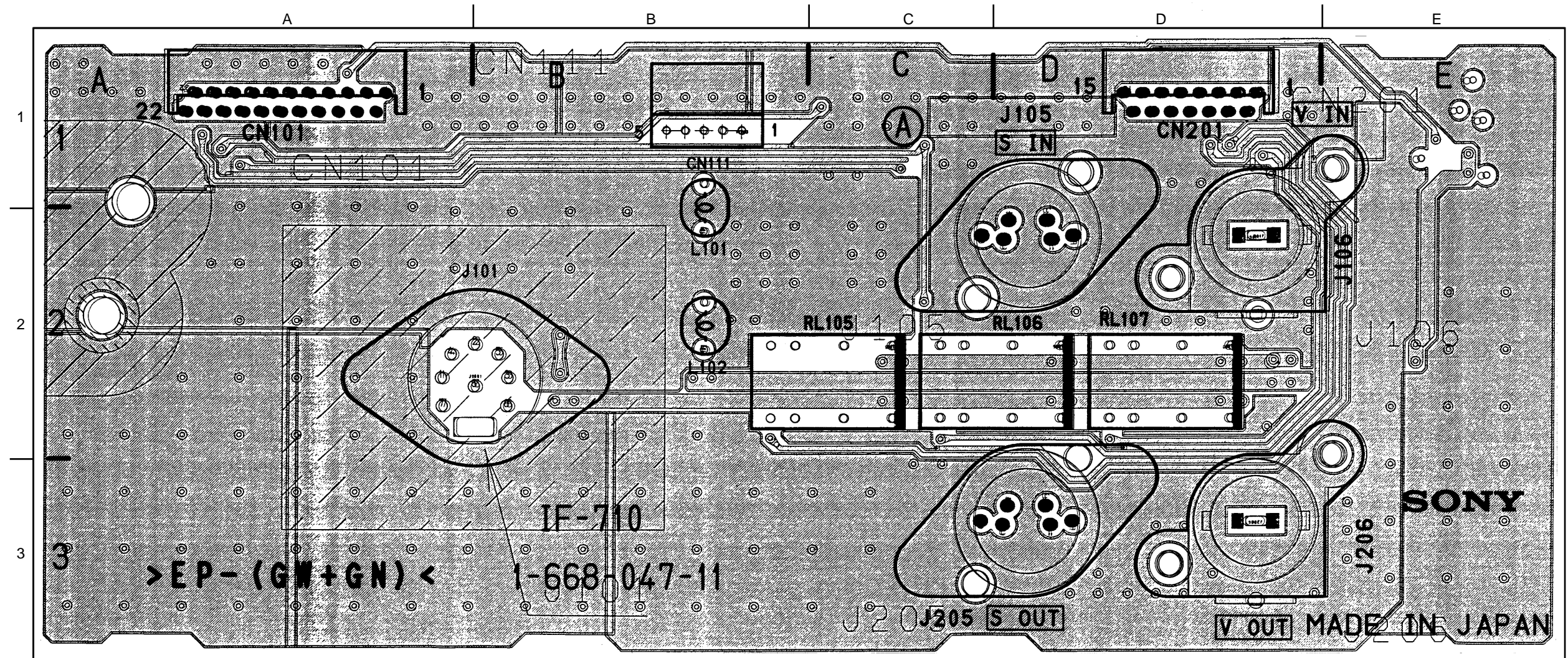


B-UP28-IF672/M

10-16

10-16

UP-2800 (J, UC, CE)



IF-710 A SIDE
1-668-047-11

IF-710

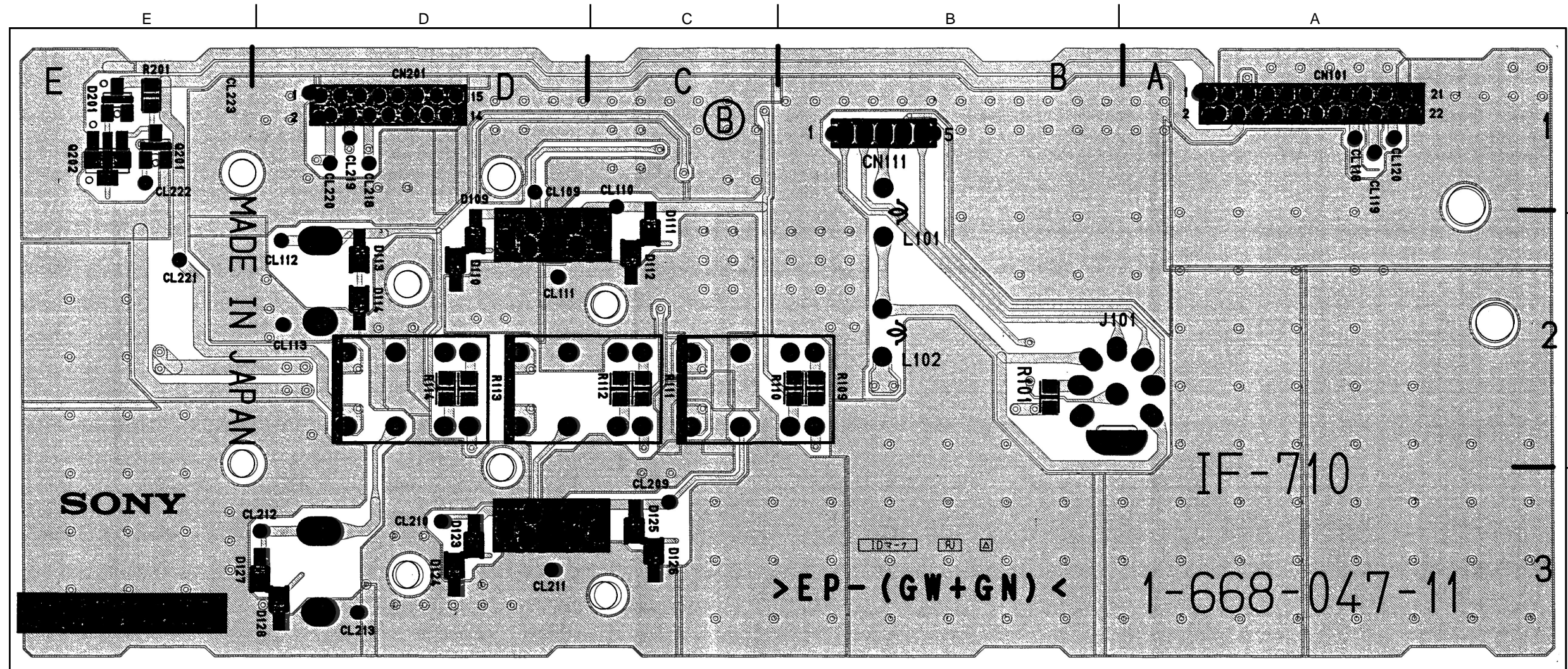
CN101 A-1
CN201 D-1

*D201 E-1

J105 D-2
J106 D-2
J205 D-3
J206 D-3

*Q201 E-1
*Q202 E-1

*:B SIDE



IF-710 B SIDE
1-668-047-11

1

2

3

4

5

A

B

C

10-18
D

10-18
E

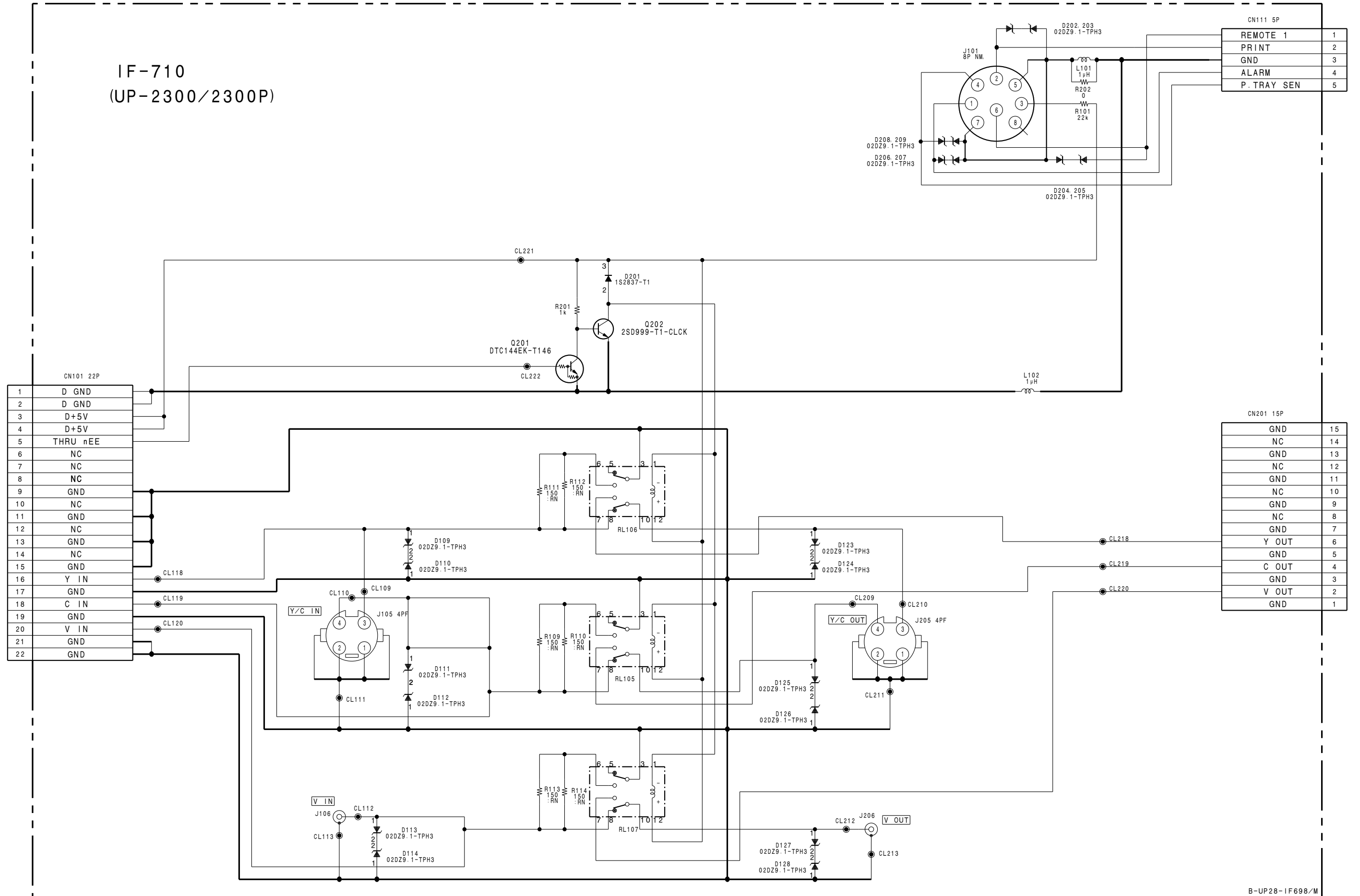
F

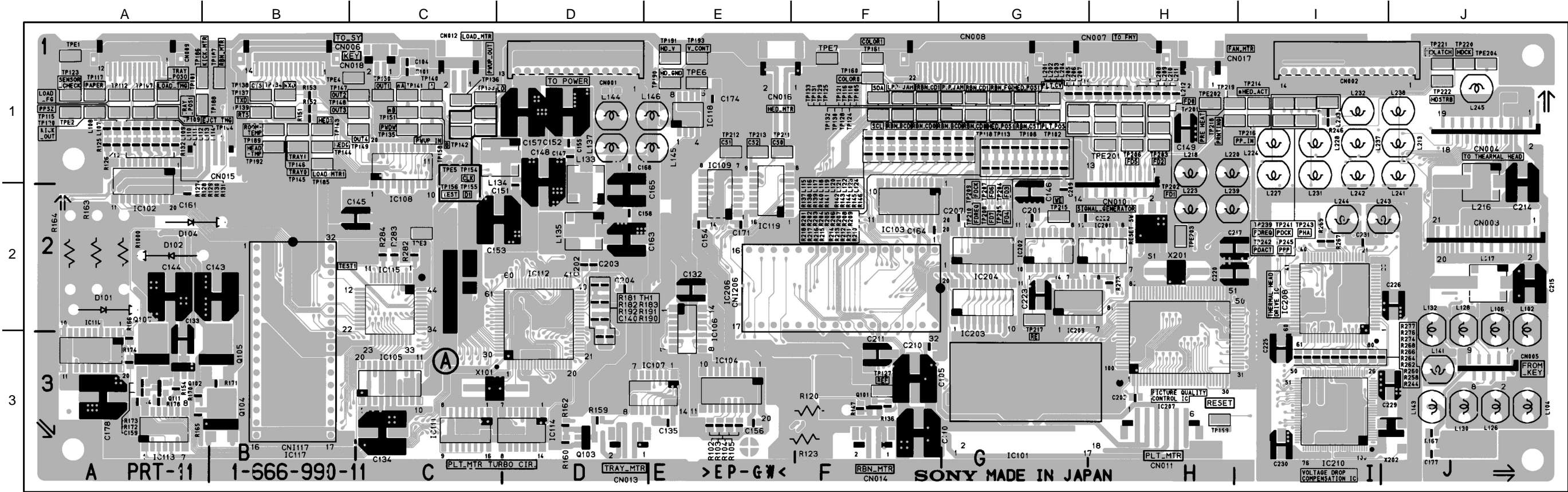
G

H

UP-2800 (J, UC, CE)

IF-710
(UP-2300/2300P)



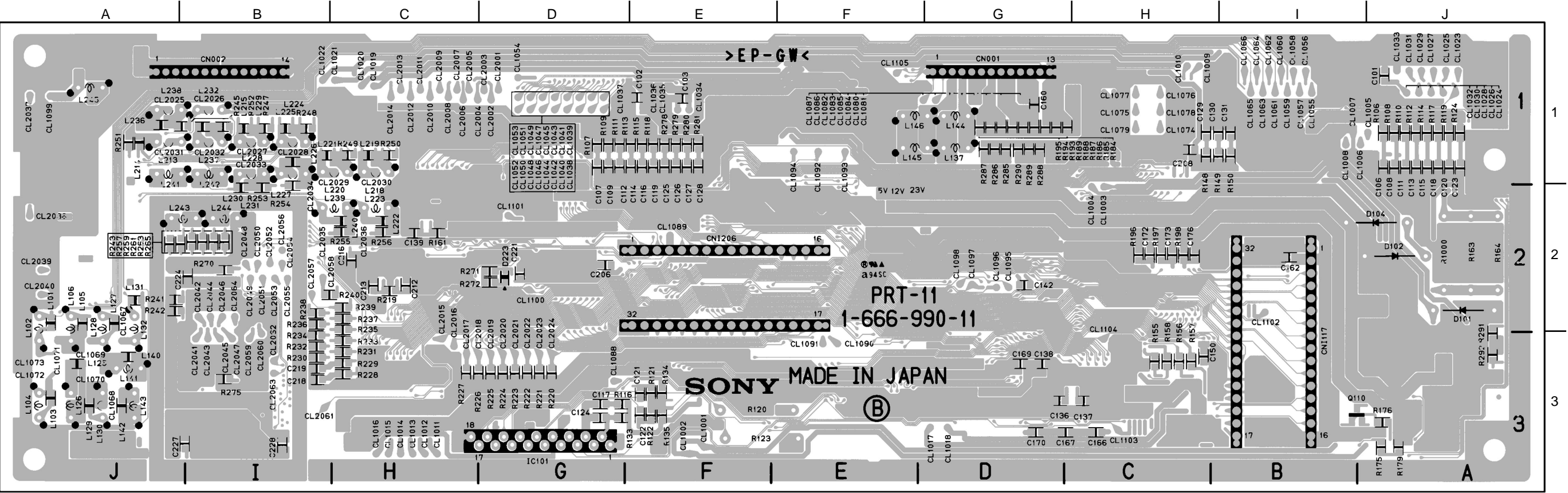


PRT-11 A SIDE
1-666-990-11

PRT-11

| | | | |
|--------|-----|-------|-----|
| CN1 | D-1 | IC109 | E-1 |
| CN2 | I-1 | IC110 | A-2 |
| CN3 | J-2 | IC111 | C-3 |
| CN4 | J-1 | IC112 | D-2 |
| CN5 | J-3 | IC113 | A-3 |
| CN6 | B-1 | IC114 | D-3 |
| CN7 | H-1 | IC115 | C-2 |
| CN8 | G-1 | IC117 | B-3 |
| CN9 | A-1 | IC118 | E-1 |
| CN10 | H-2 | IC119 | E-2 |
| CN11 | H-3 | IC201 | H-2 |
| CN12 | C-1 | IC202 | G-2 |
| CN13 | D-3 | IC203 | G-1 |
| CN14 | F-3 | IC204 | G-2 |
| CN15 | B-1 | IC206 | E-2 |
| CN16 | E-1 | IC207 | H-2 |
| CN17 | I-1 | IC208 | I-2 |
| CN18 | B-1 | IC209 | G-2 |
| CN101 | E-1 | IC210 | I-3 |
| CN1520 | E-1 | | |
| CN1117 | B-3 | Q101 | F-3 |
| CN1206 | E-2 | Q102 | A-3 |
| | | Q103 | D-3 |
| | | Q104 | B-3 |
| D101 | A-2 | Q105 | B-3 |
| D102 | A-2 | Q107 | A-2 |
| D104 | A-2 | *Q110 | B-3 |
| *D223 | G-2 | Q111 | A-3 |
| IC101 | G-3 | S1 | H-2 |
| IC102 | A-2 | | |
| IC103 | F-2 | | |
| IC104 | E-3 | TH1 | D-2 |
| IC105 | C-3 | | |
| IC106 | E-2 | X101 | C-3 |
| IC107 | E-3 | X201 | H-2 |
| IC108 | C-2 | X202 | J-3 |

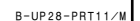
*:B SIDE

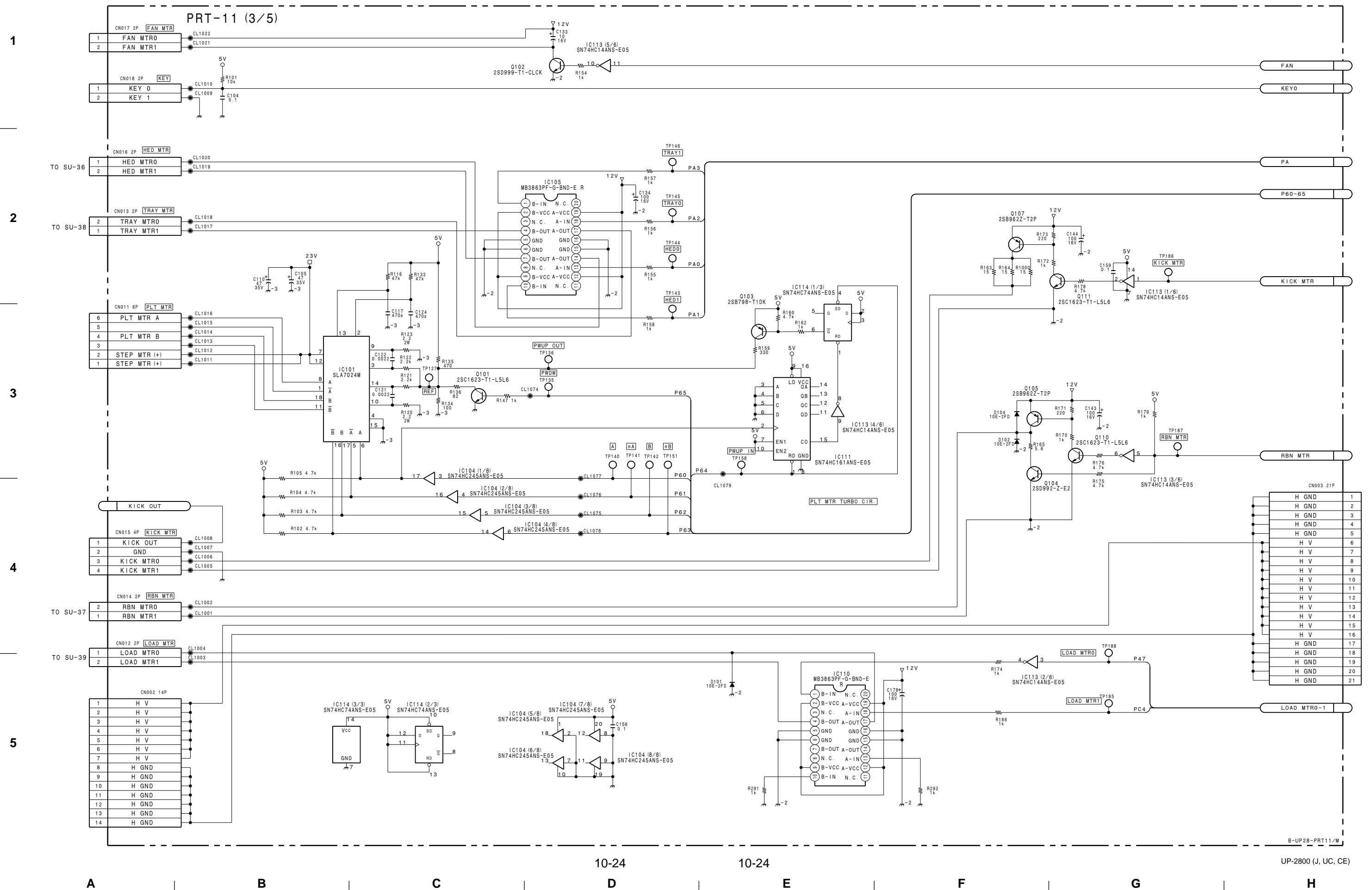


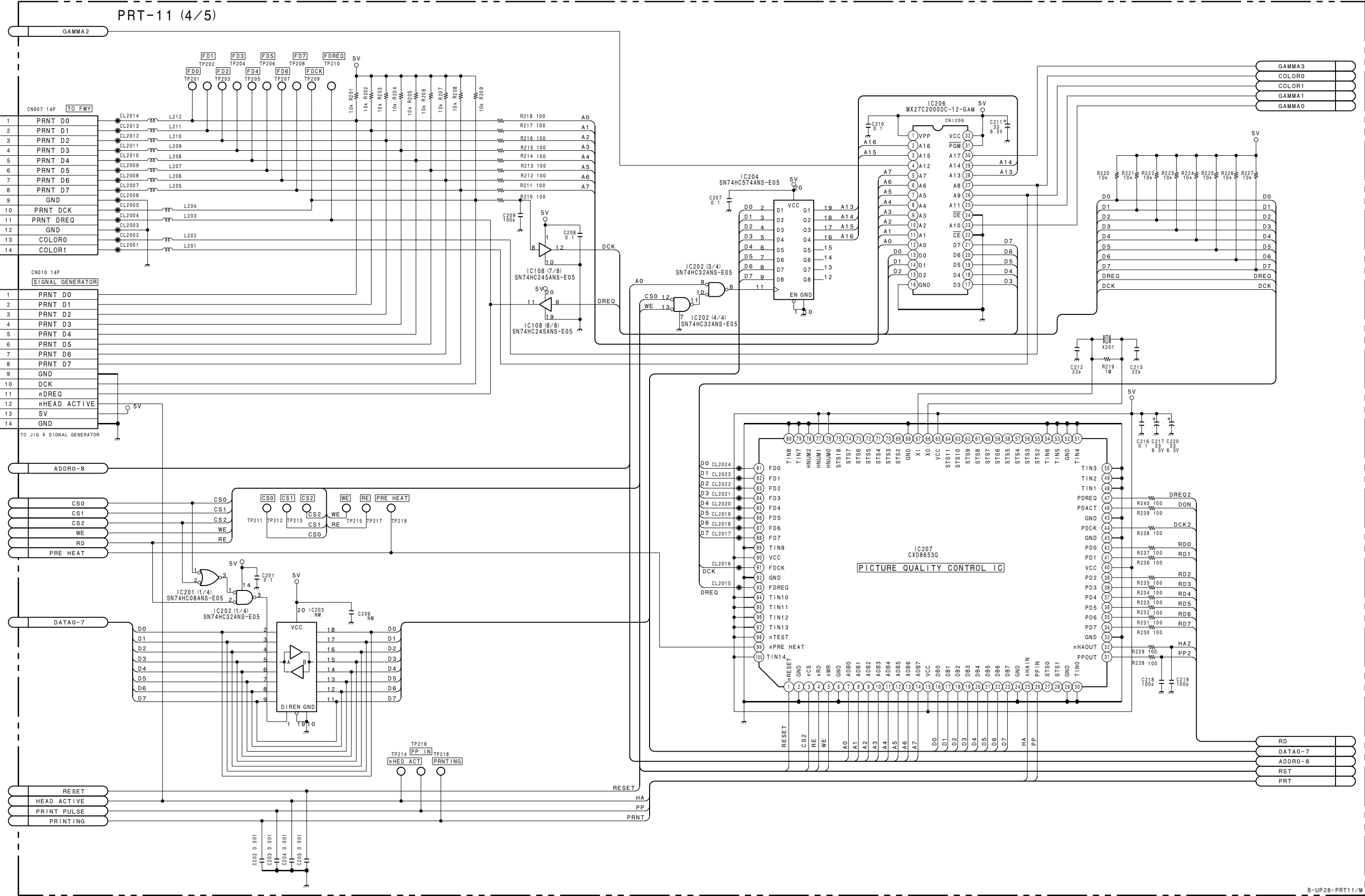
PRT-11 B SIDE
1-666-990-11

PRINT CONTROL





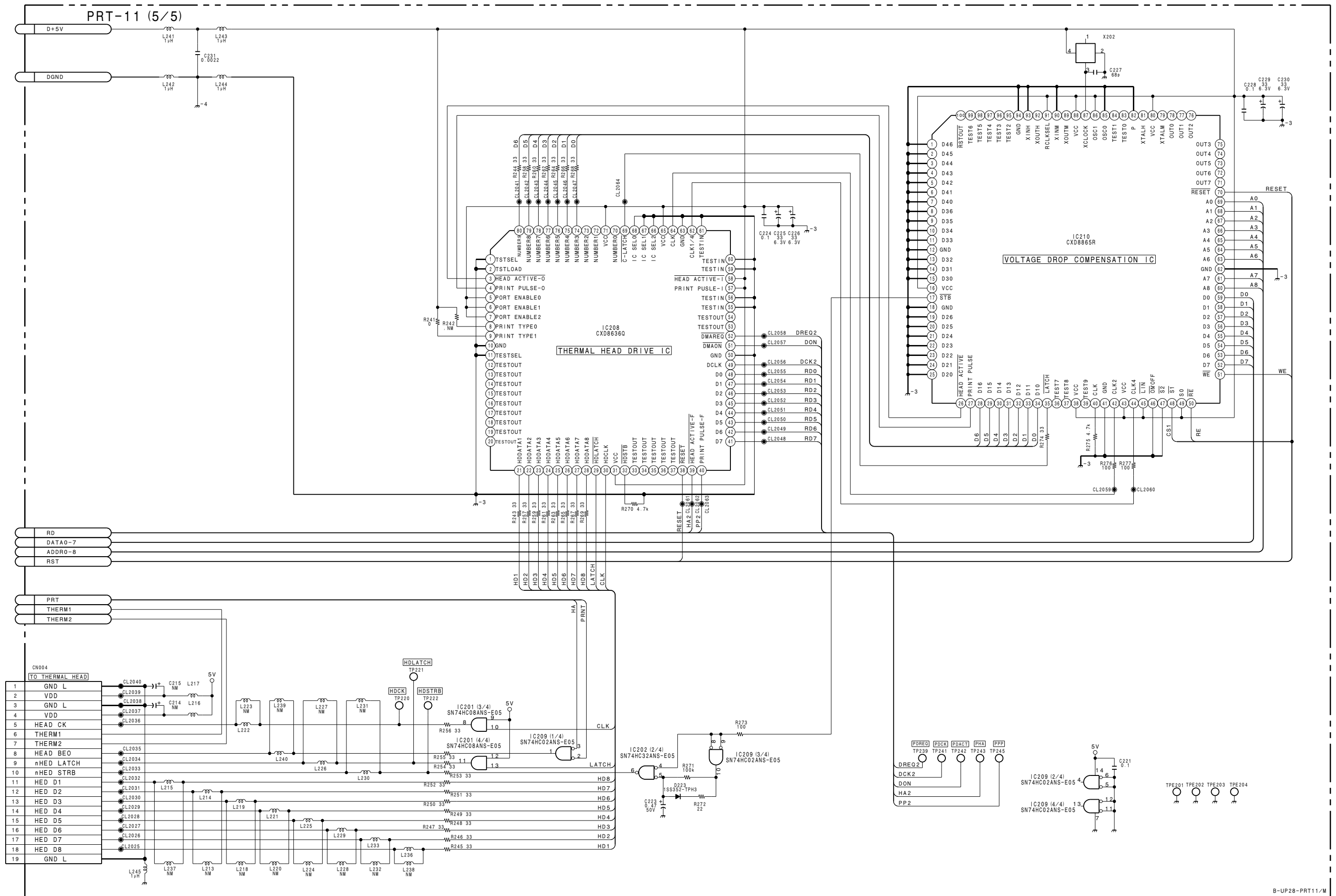


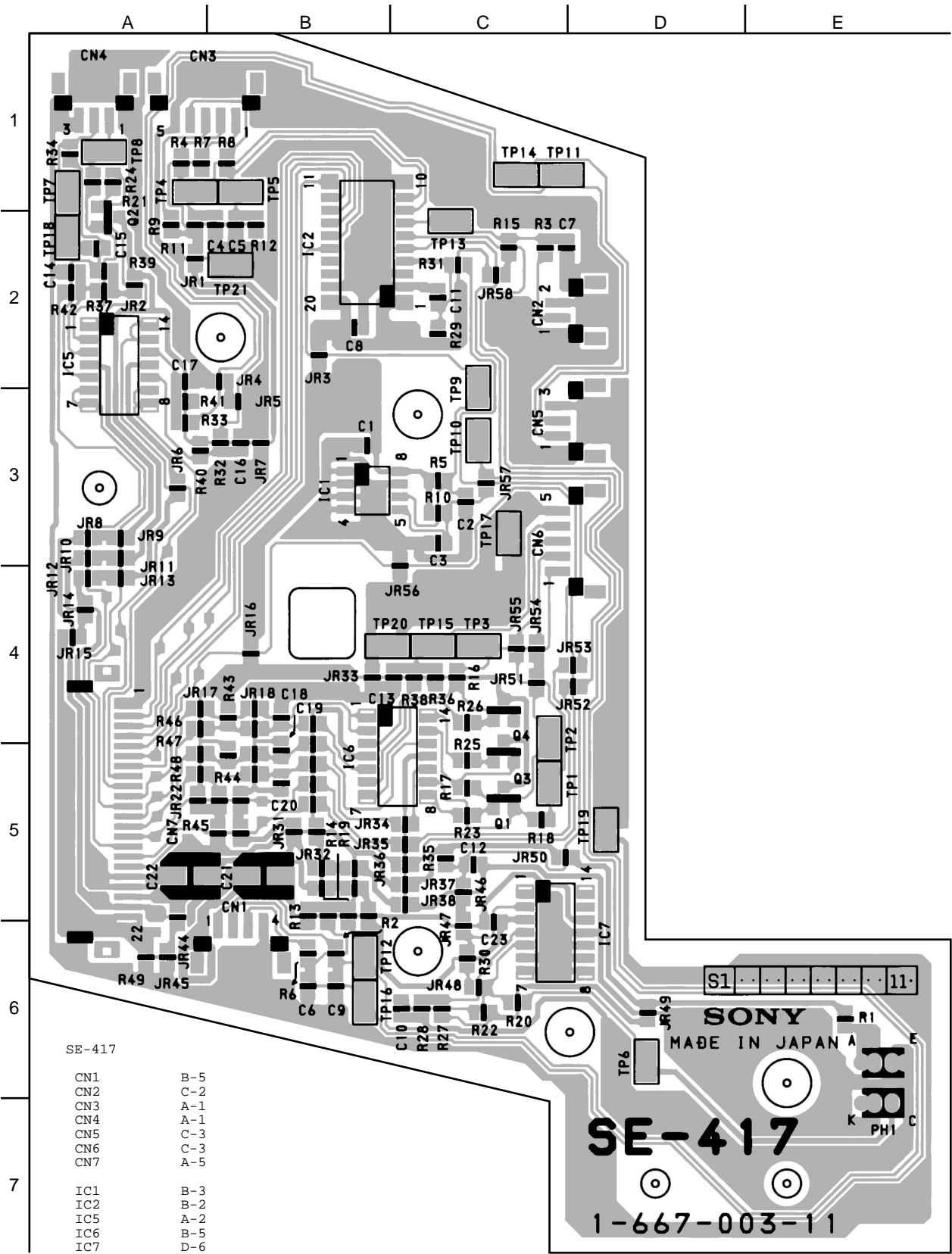


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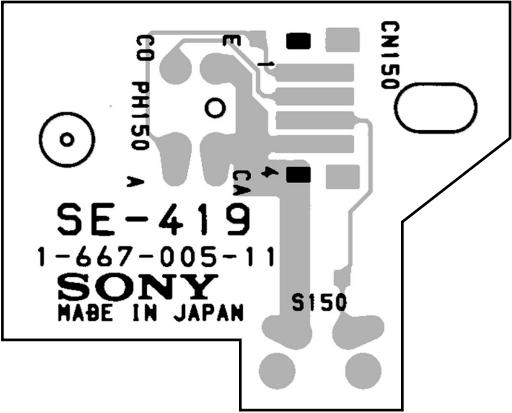
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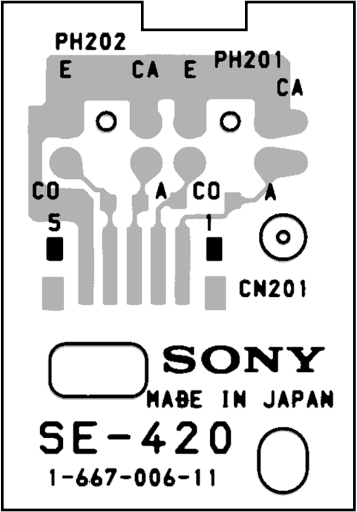




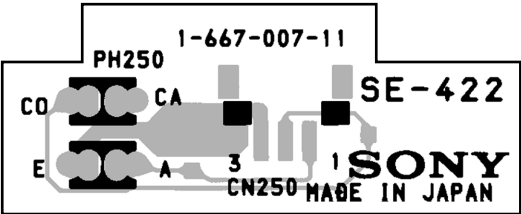
SE-417 A SIDE
1-667-003-11



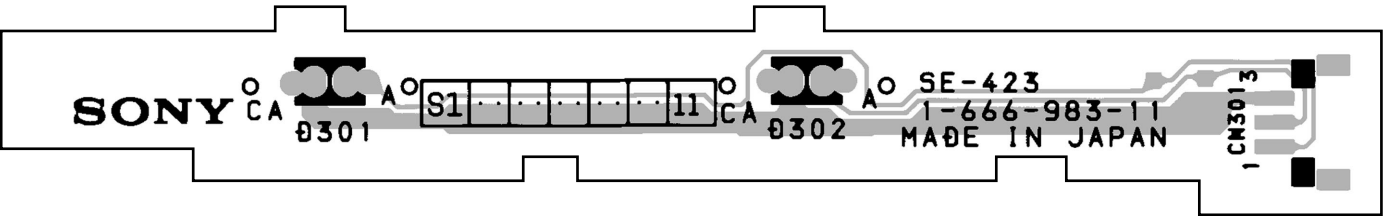
SE-419 A SIDE
1-667-005-11



SE-420 A SIDE
1-667-006-11



SE-422 A SIDE
1-667-007-11



SE-423 A SIDE
1-666-983-11

SENSOR

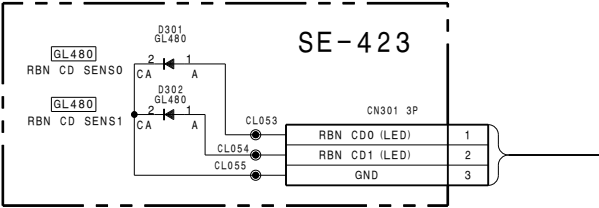
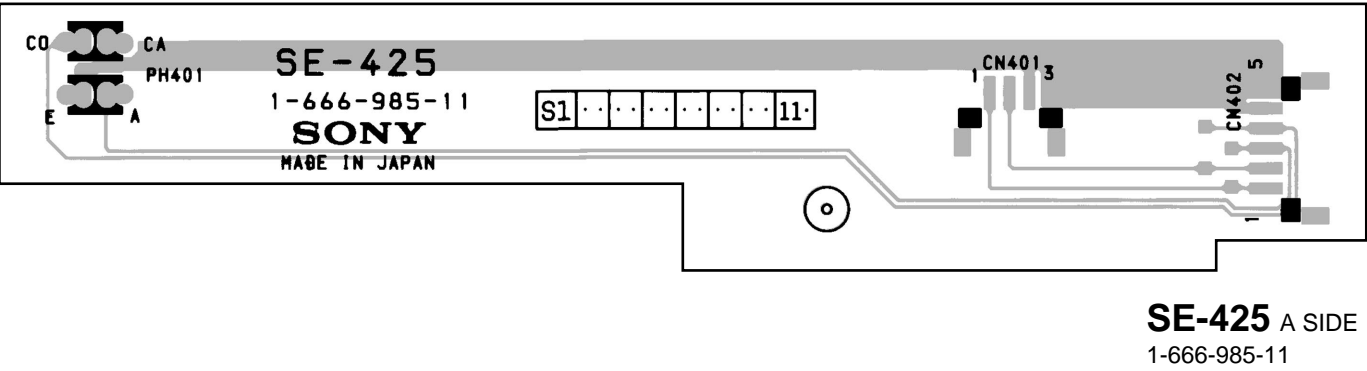
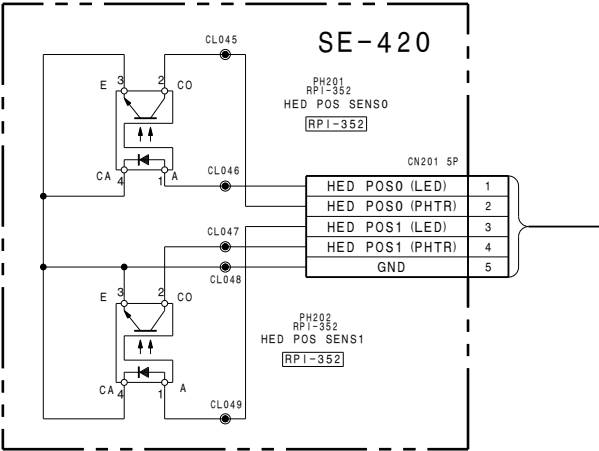
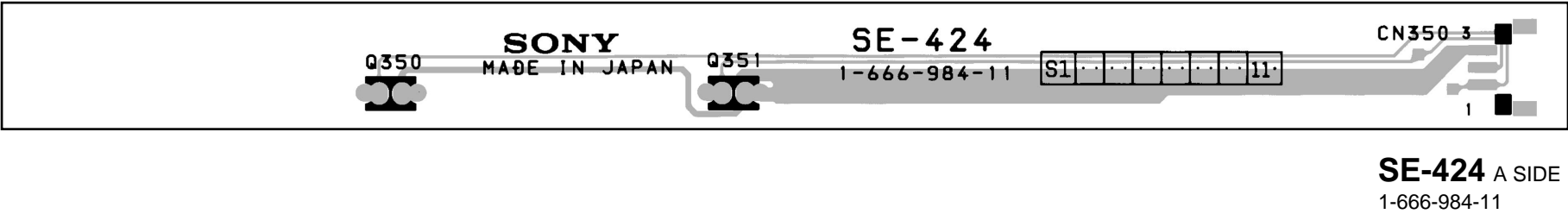
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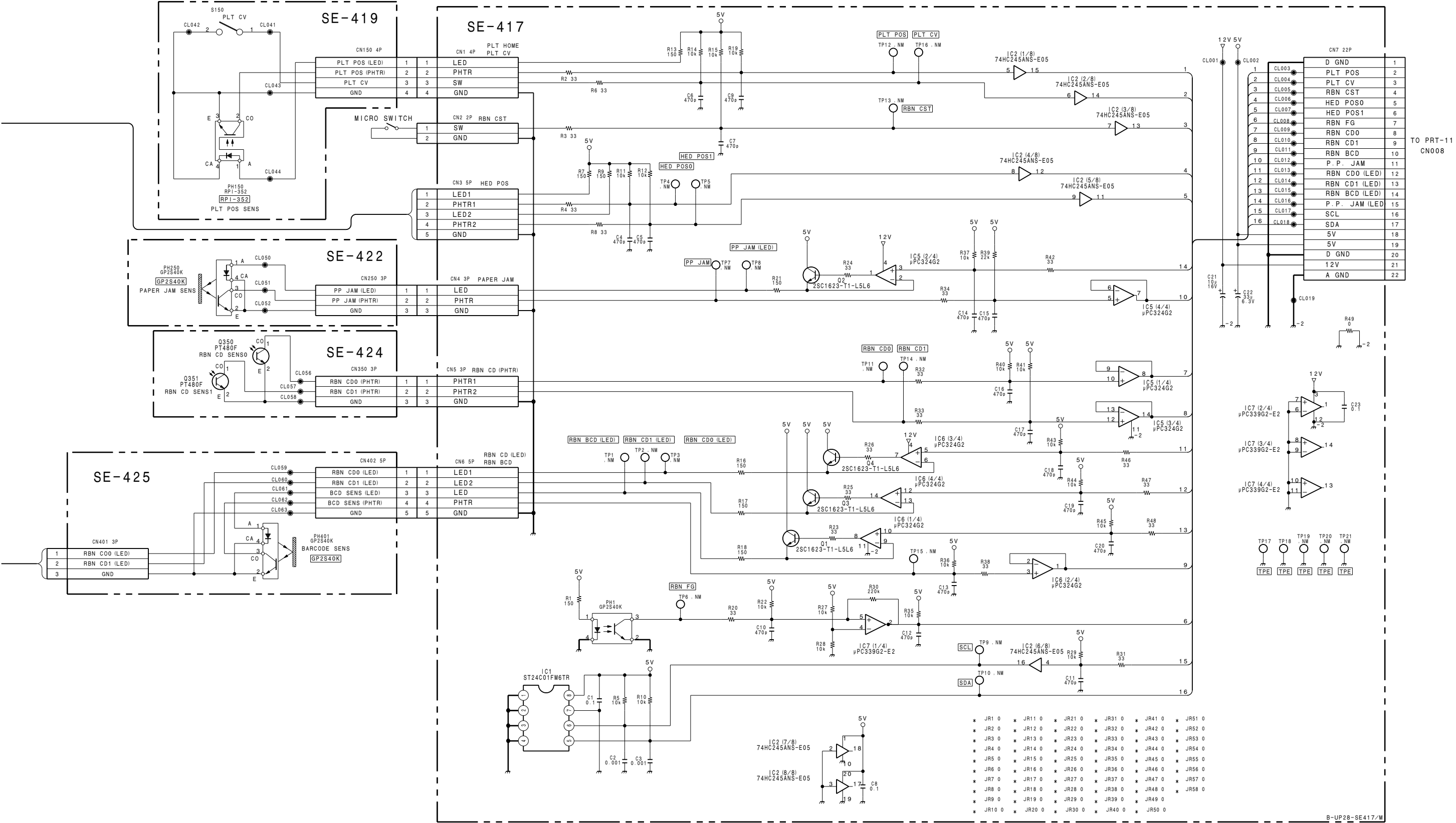
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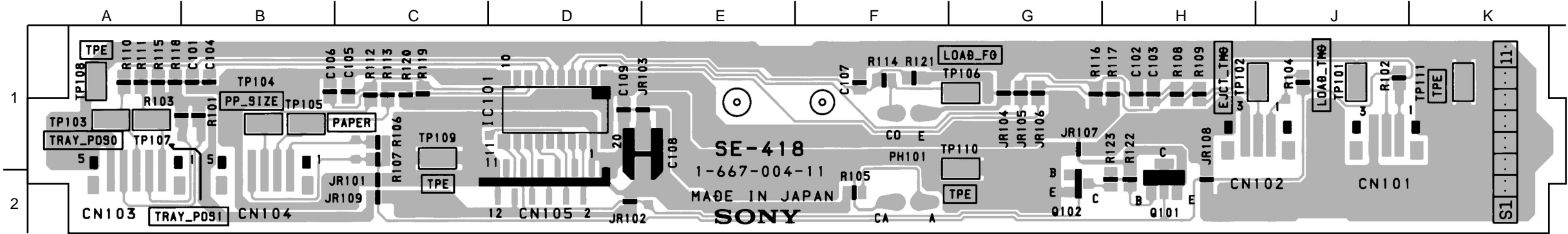
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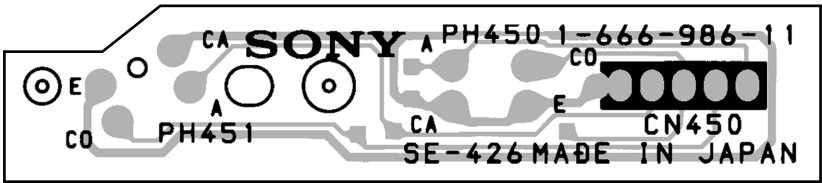


SE-418

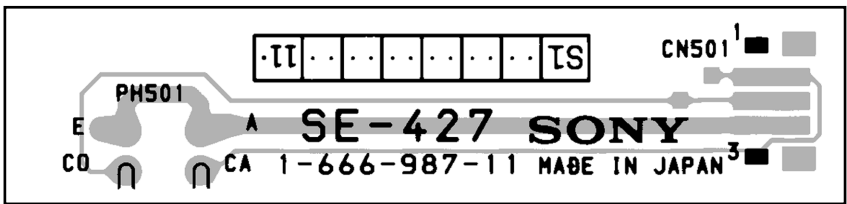
- | | |
|-------|-----|
| CN101 | I-2 |
| CN102 | H-2 |
| CN103 | A-2 |
| CN104 | B-2 |
| CN105 | D-1 |
| IC101 | C-1 |
| JR101 | C-2 |
| JR102 | D-2 |
| JR103 | E-1 |
| JR104 | G-1 |
| JR105 | G-1 |
| JR106 | G-1 |
| JR107 | G-1 |
| JR108 | H-1 |
| JR109 | C-2 |
| PH101 | F-1 |
| Q101 | H-2 |
| Q102 | G-2 |



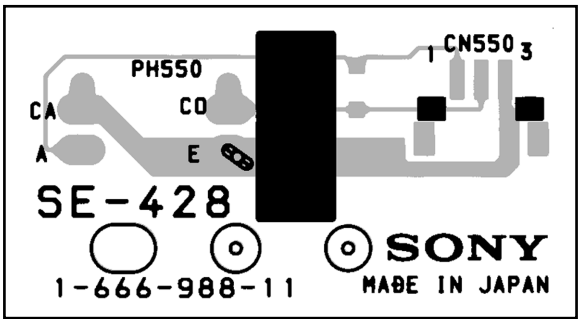
SE-418 A SIDE
1-667-004-11



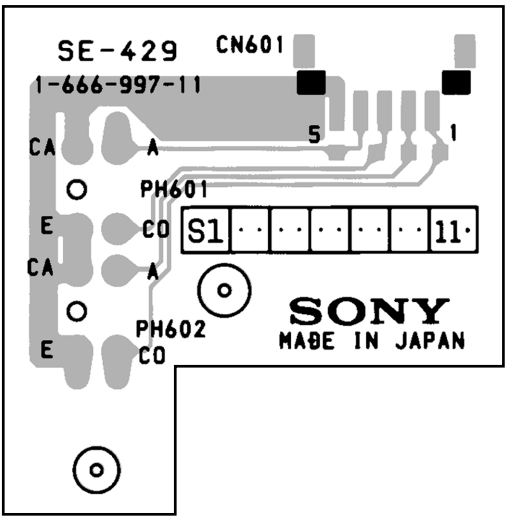
SE-426 A SIDE
1-666-986-11



SE-427 A SIDE
1-666-987-11



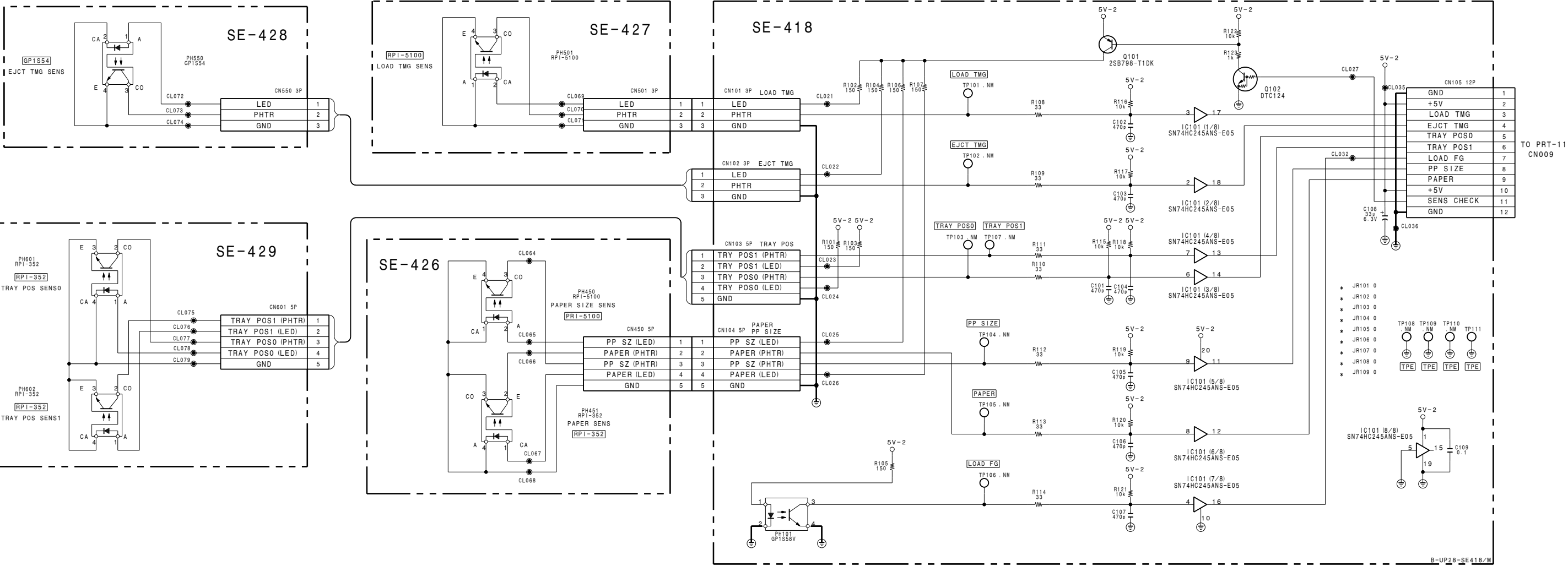
SE-428 A SIDE
1-666-988-11



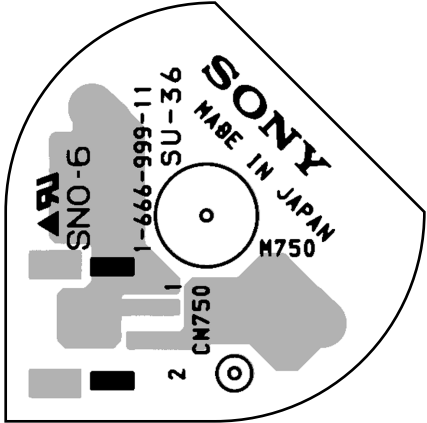
SE-429 A SIDE
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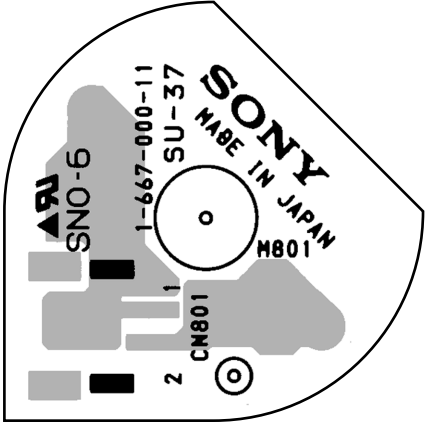
SENSOR



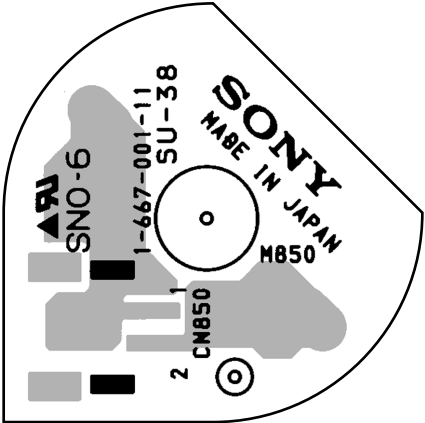
MOTOR



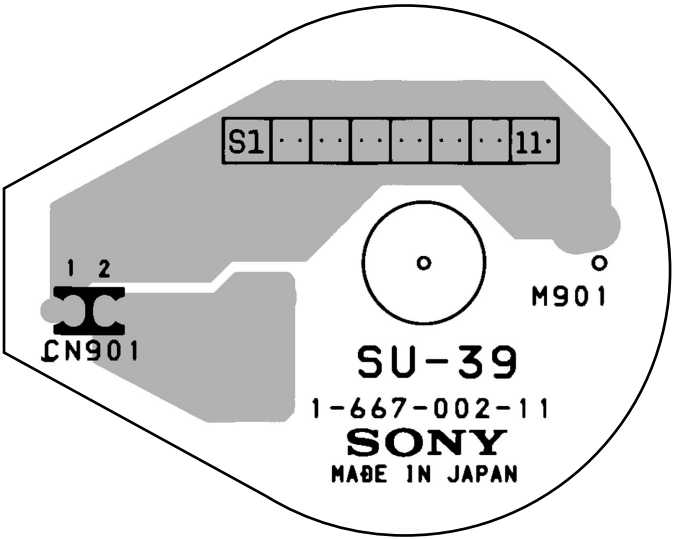
SU-36 A SIDE
1-666-999-11



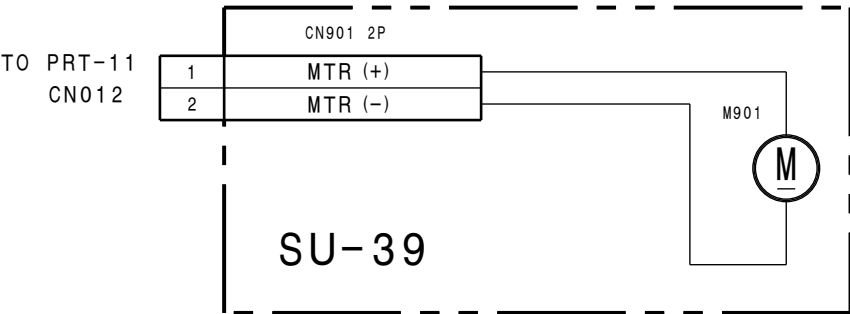
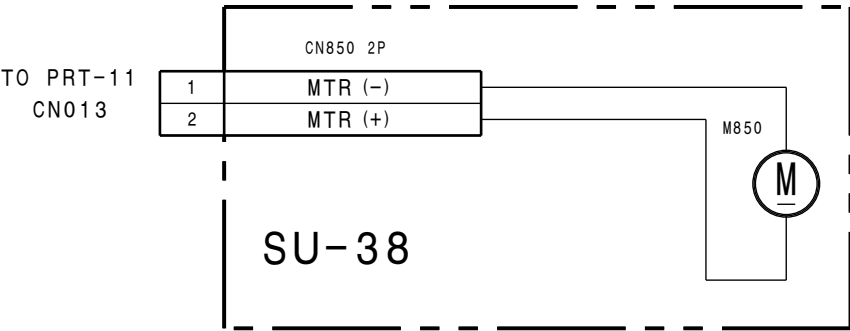
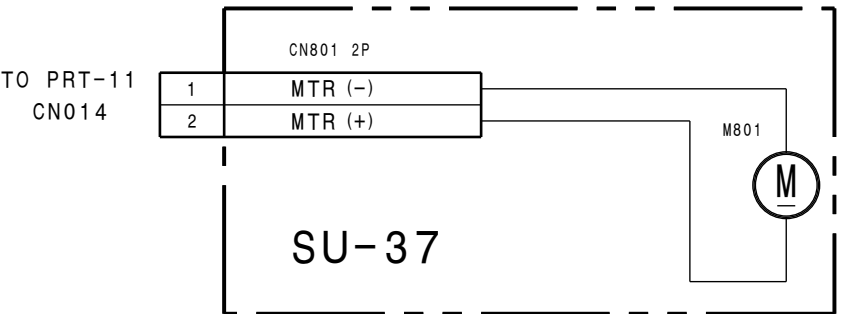
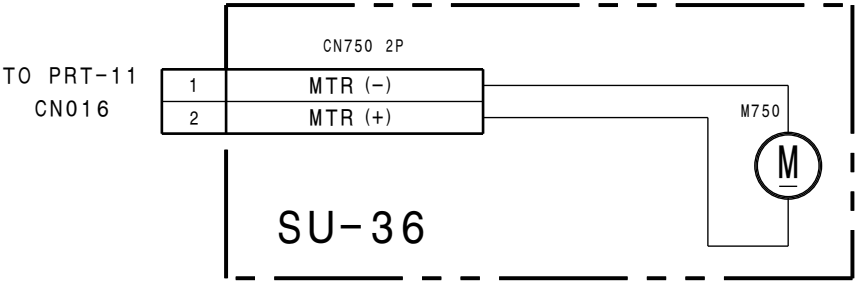
SU-37 A SIDE
1-667-000-11



SU-38 A SIDE
1-667-001-11



SU-39 A SIDE
1-667-002-11



B-UP28-SU36/M

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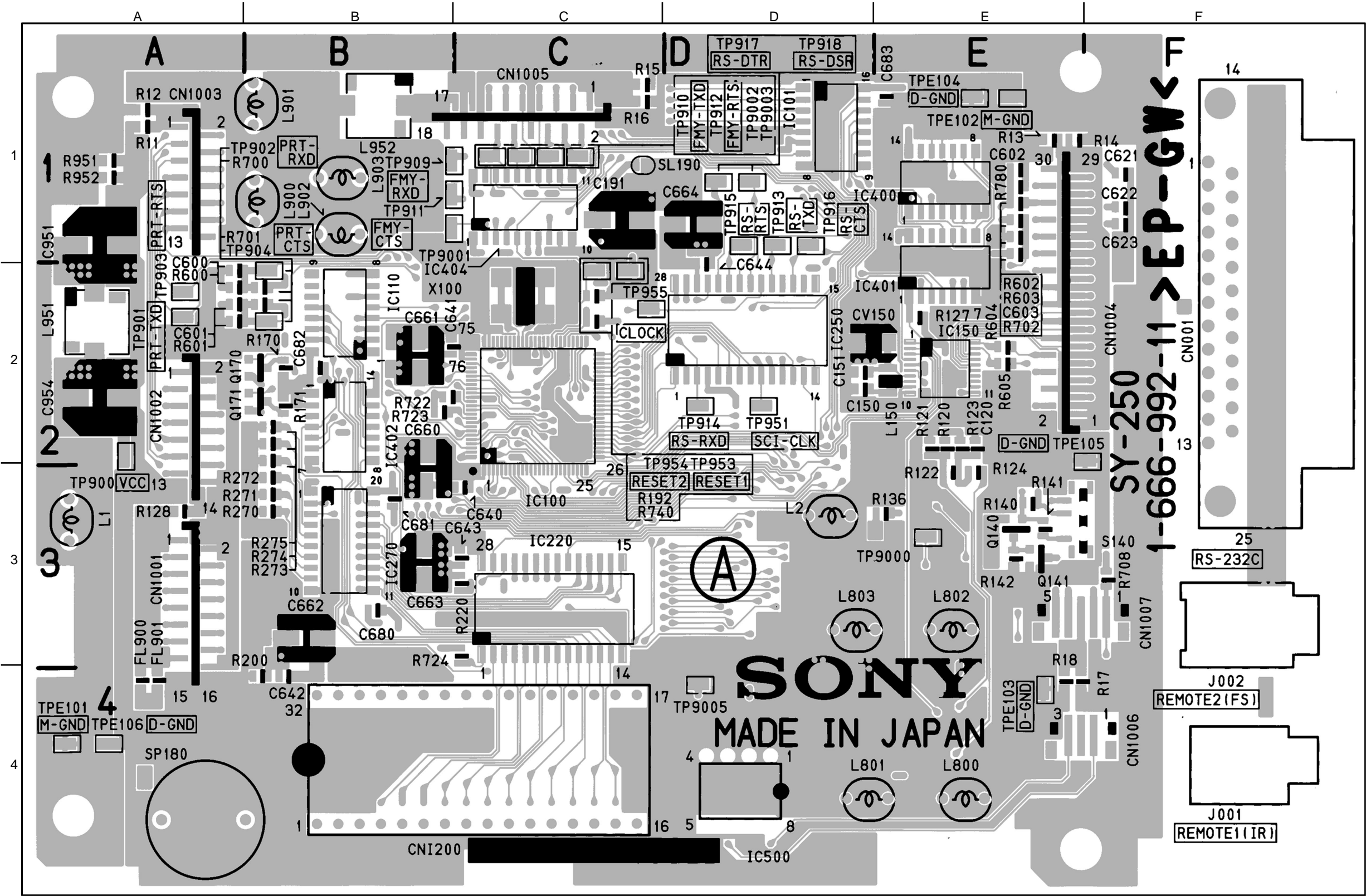
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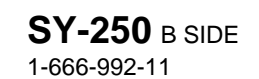
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SY-250

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|--------|-----|
| CN1 | F-2 |
| CN1001 | A-3 |
| CN1002 | A-2 |
| CN1003 | A-1 |
| CN1004 | F-2 |
| CN1005 | C-1 |
| CN1006 | F-4 |
| CN1007 | F-3 |
| CN1200 | B-4 |
| | |
| *D110 | B-1 |
| *D111 | B-1 |
| *D112 | B-1 |
| *D113 | B-1 |
| *D190 | C-2 |
| *D600 | E-4 |
| *D601 | D-3 |
| | |
| IC100 | C-3 |
| IC101 | D-1 |
| IC110 | B-2 |
| IC150 | E-2 |
| *IC190 | C-1 |
| IC200 | |
| IC220 | C-3 |
| *IC230 | B-3 |
| IC250 | D-2 |
| IC270 | B-3 |
| *IC280 | D-2 |
| *IC281 | D-1 |
| *IC300 | E-3 |
| *IC301 | E-4 |
| *IC302 | E-3 |
| IC400 | E-1 |
| IC401 | E-2 |
| IC402 | B-2 |
| *IC403 | C-3 |
| IC404 | B-2 |
| IC500 | D-4 |
| | |
| J1 | F-4 |
| J2 | F-4 |
| | |
| Q140 | E-3 |
| Q141 | E-3 |
| *Q160 | E-2 |
| Q170 | A-2 |
| Q171 | A-2 |
| *Q180 | A-4 |
| | |
| SP180 | A-4 |
| | |
| TP900 | A-3 |
| TP901 | A-2 |
| TP902 | B-1 |
| TP903 | A-2 |
| TP904 | B-1 |
| TP909 | B-1 |
| TP910 | D-1 |
| TP911 | B-1 |
| TP912 | D-1 |
| TP913 | D-1 |
| TP914 | D-2 |
| TP915 | D-1 |
| TP916 | D-1 |
| TP917 | D-1 |
| TP918 | D-1 |
| TP951 | D-2 |
| TP953 | D-2 |
| TP954 | D-2 |
| TP955 | C-2 |
| TP9000 | E-3 |
| TP9001 | B-1 |
| TP9002 | D-1 |
| TP9003 | D-1 |
| TP9005 | D-4 |
| TPE101 | A-4 |
| TPE102 | E-1 |
| TPE103 | E-4 |
| TPE104 | E-1 |
| TPE105 | F-2 |
| TPE106 | A-4 |
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| X100 | C-2 |

*:B SIDE





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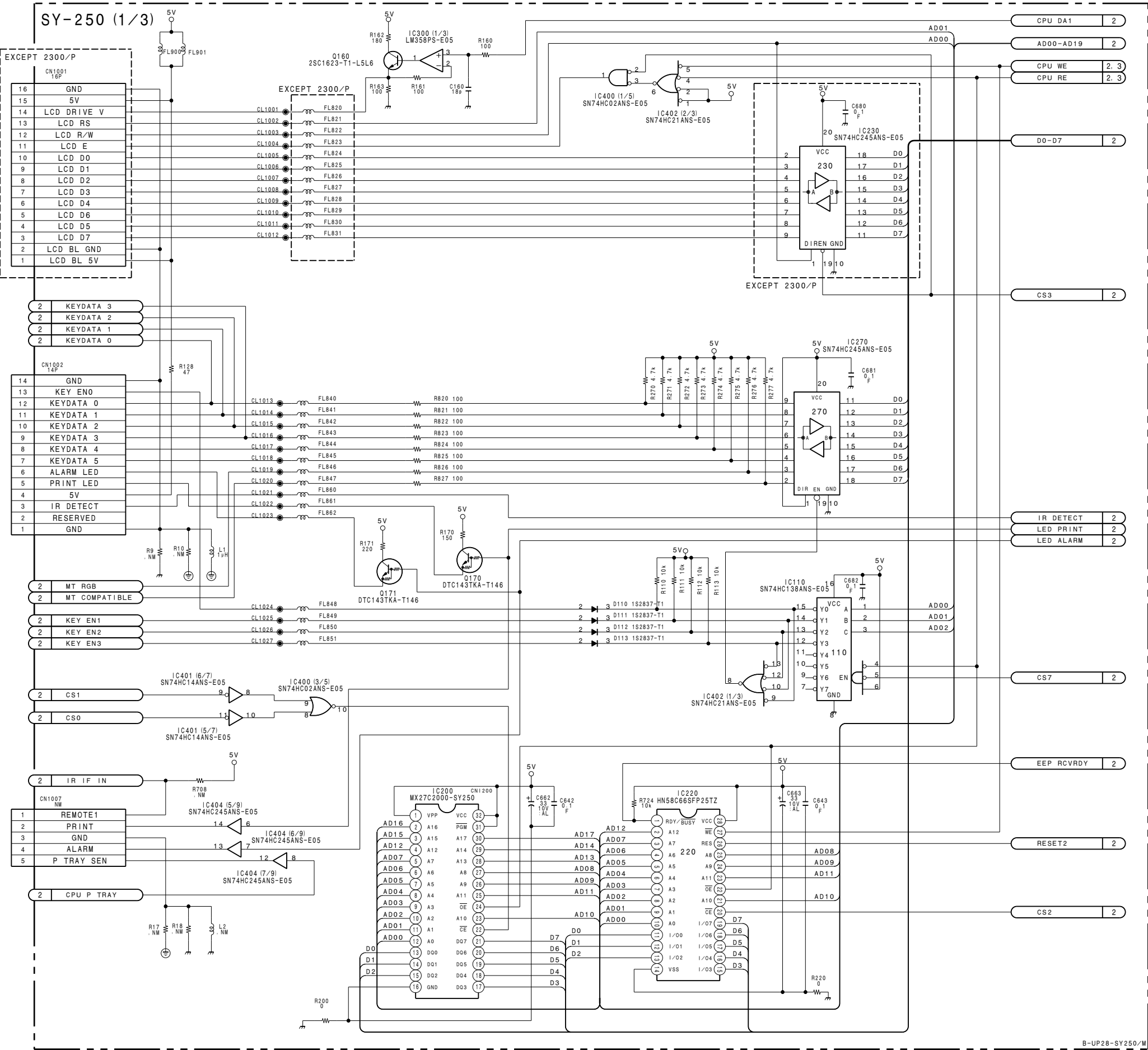
F

G

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UP-2800 (J, UC, CE)

RS-232C INTERFACE



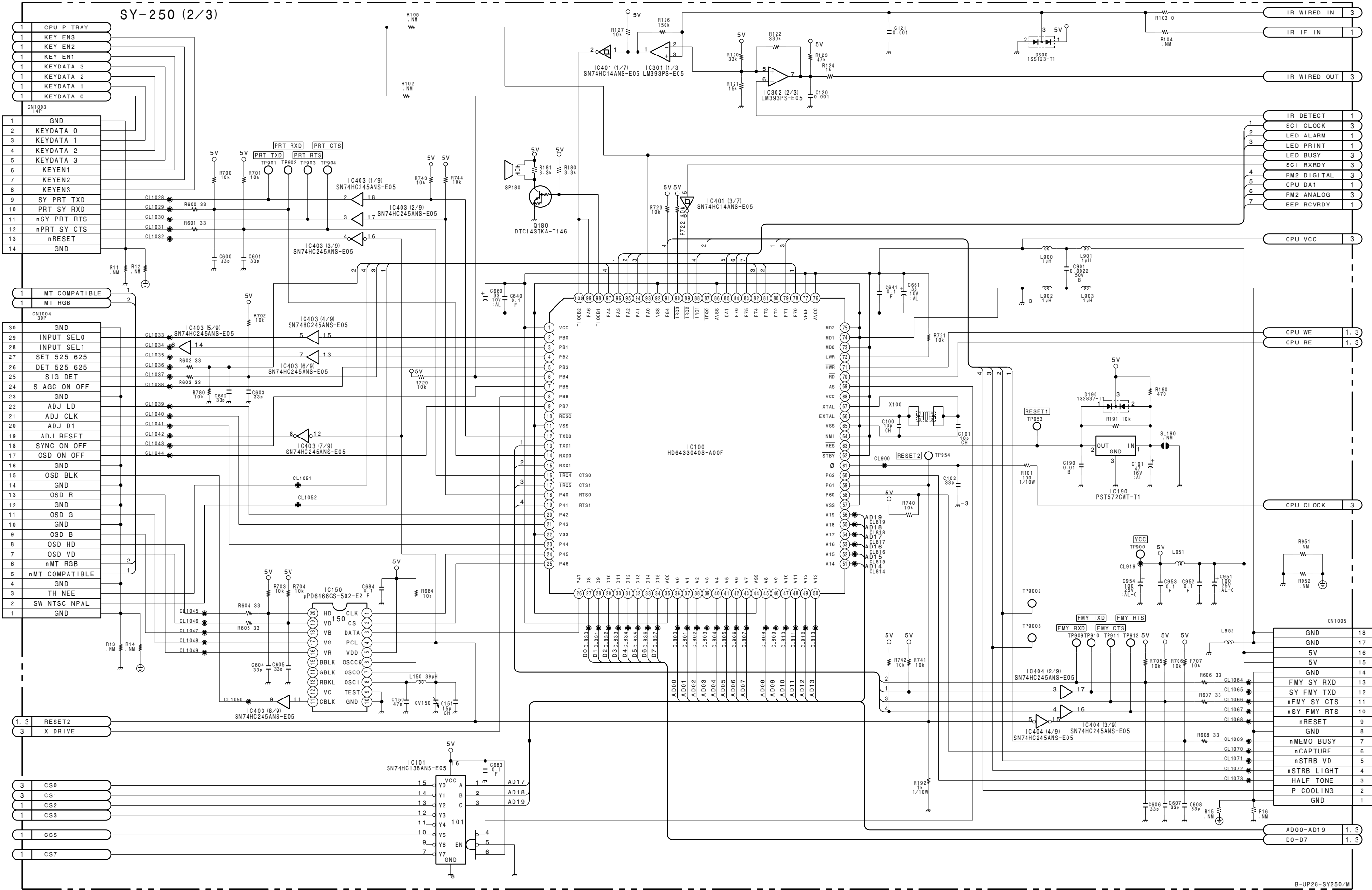
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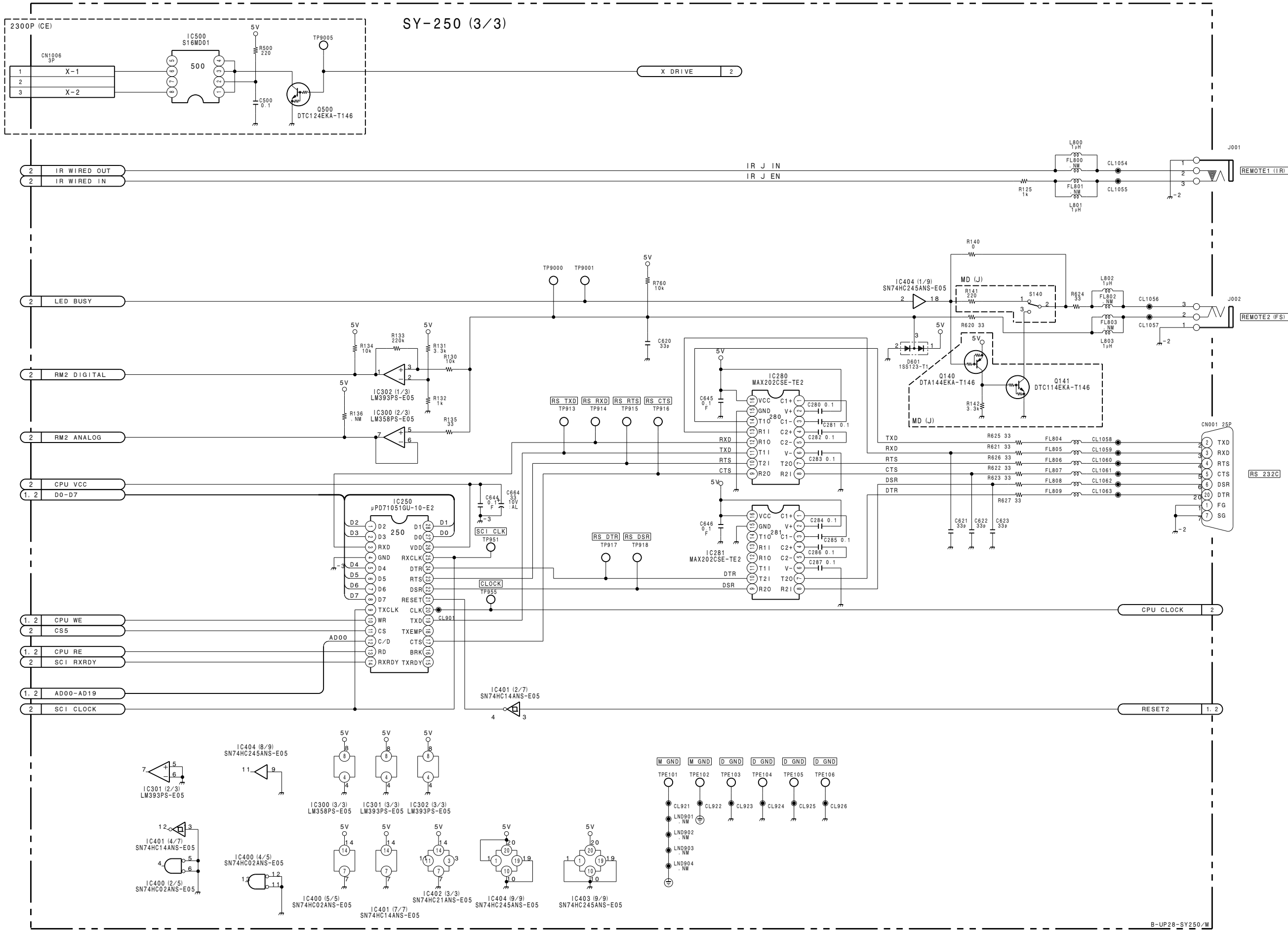
2

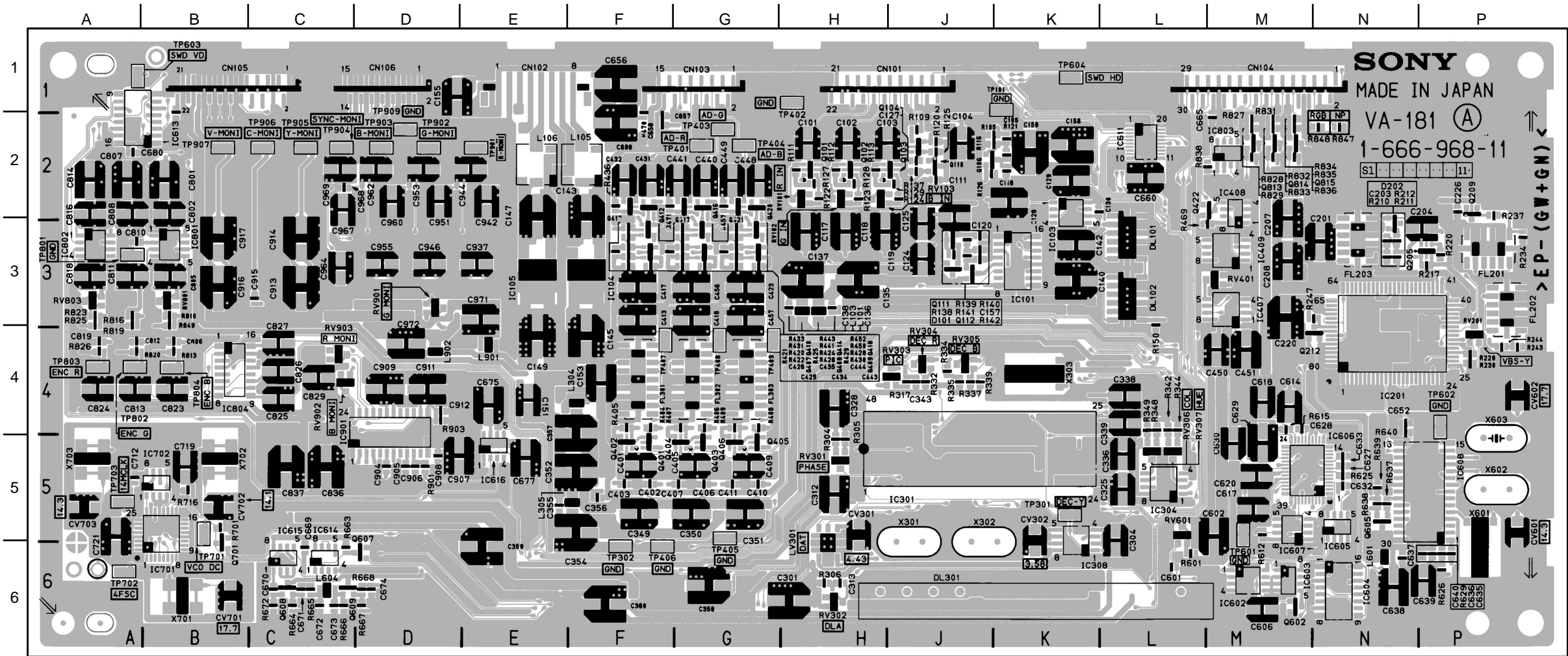
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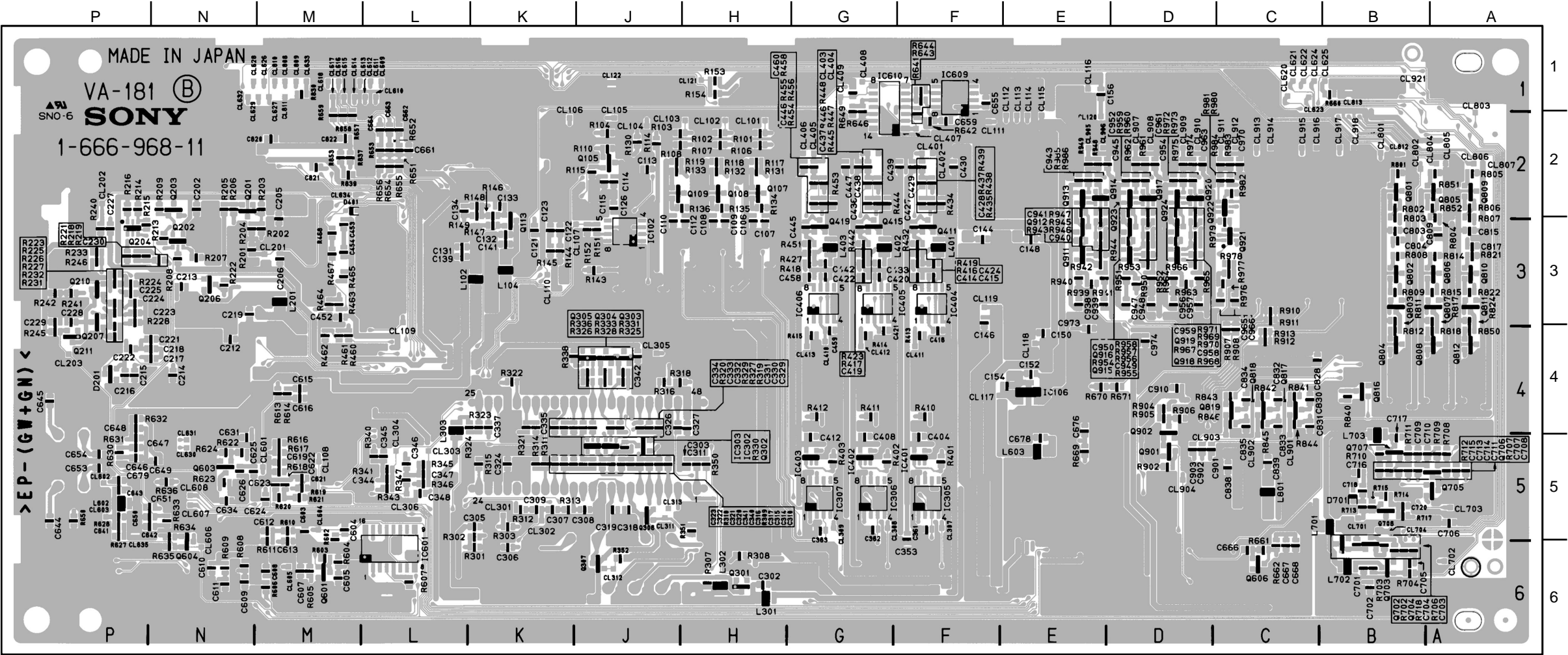




VA-181 A SIDE
1-666-960-11

VA-181

| | | | | | | | | | | | | | |
|--------|-----|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| CN101 | J-1 | IC103 | K-3 | IC611 | L-2 | Q205 | N-3 | *Q419 | G-3 | Q813 | M-2 | RV305 | J-4 |
| CN102 | E-1 | IC104 | F-3 | IC613 | B-2 | *Q206 | N-3 | Q420 | G-2 | Q814 | M-2 | RV306 | L-4 |
| CN103 | G-1 | IC105 | E-3 | IC614 | C-5 | *Q207 | P-4 | Q421 | G-2 | Q815 | N-2 | RV307 | L-4 |
| CN104 | M-1 | IC106 | E-4 | IC615 | C-5 | Q209 | P-2 | Q422 | L-2 | *Q816 | B-4 | RV401 | M-3 |
| CN105 | B-1 | IC201 | N-4 | IC616 | B-5 | *Q210 | P-3 | *Q601 | M-6 | *Q817 | C-4 | RV601 | L-5 |
| CN106 | D-1 | IC301 | J-5 | IC701 | B-6 | *Q211 | P-4 | Q602 | M-6 | *Q818 | C-4 | RV801 | B-3 |
| CV301 | H-5 | *IC302 | H-5 | IC702 | B-5 | Q212 | M-4 | *Q603 | N-5 | *Q819 | D-4 | RV803 | A-3 |
| CV302 | K-5 | *IC303 | H-5 | IC801 | B-3 | *Q301 | H-6 | *Q604 | N-6 | *Q901 | D-5 | RV901 | D-3 |
| CV601 | P-5 | IC304 | L-5 | IC802 | A-3 | *Q302 | H-5 | Q605 | N-5 | *Q902 | D-4 | RV902 | C-4 |
| CV602 | P-4 | *IC305 | F-5 | IC803 | M-2 | *Q303 | J-3 | *Q606 | C-6 | *Q911 | E-3 | RV903 | C-4 |
| CV701 | B-6 | *IC306 | G-5 | IC804 | B-4 | *Q304 | J-3 | Q607 | D-6 | *Q912 | E-3 | | |
| CV702 | B-5 | *IC307 | G-5 | IC901 | C-4 | *Q305 | J-3 | Q608 | C-6 | *Q913 | E-2 | | |
| CV703 | A-5 | IC308 | K-6 | | | *Q306 | J-5 | Q609 | C-6 | *Q914 | D-2 | | |
| | | *IC401 | F-5 | LV301 | H-6 | *Q307 | J-6 | Q701 | B-6 | *Q915 | E-4 | X301 | J-5 |
| | | *IC402 | G-5 | | | Q401 | F-5 | *Q702 | B-6 | *Q916 | E-4 | X302 | J-5 |
| D101 | J-3 | *IC403 | G-5 | | | Q402 | F-5 | *Q703 | B-5 | *Q917 | D-2 | X303 | K-4 |
| *D201 | P-4 | *IC404 | F-3 | | | Q403 | G-5 | *Q704 | B-6 | *Q918 | D-4 | X601 | P-5 |
| D202 | N-2 | *IC405 | F-3 | | | Q404 | F-5 | *Q705 | A-5 | *Q919 | D-4 | X602 | P-4 |
| *D401 | M-2 | *IC406 | G-3 | | | Q405 | G-5 | *Q706 | B-5 | *Q920 | D-2 | X701 | B-6 |
| *D701 | B-5 | IC407 | M-3 | | | Q406 | G-5 | *Q707 | B-5 | *Q921 | C-3 | X702 | B-5 |
| DL101 | L-3 | IC408 | M-2 | | | Q407 | H-4 | *Q801 | B-2 | *Q922 | D-2 | X703 | A-5 |
| DL102 | L-3 | IC409 | M-3 | | | Q408 | H-4 | *Q802 | B-3 | *Q923 | D-2 | | |
| DL301 | J-6 | *IC601 | L-6 | | | Q409 | H-4 | *Q803 | B-3 | *Q924 | D-2 | | |
| | | IC602 | M-6 | | | Q410 | H-4 | *Q804 | B-4 | | | | |
| FL201 | P-3 | IC603 | M-6 | | | *Q411 | F-3 | *Q805 | A-2 | RV101 | H-2 | | |
| FL202 | P-3 | IC604 | N-6 | | | Q412 | F-2 | *Q806 | A-3 | RV102 | G-3 | | |
| FL203 | N-3 | IC605 | N-6 | | | Q413 | F-2 | *Q807 | A-3 | RV103 | J-2 | | |
| FL301 | F-4 | IC606 | N-5 | | | *Q414 | H-4 | *Q808 | B-4 | RV201 | P-3 | | |
| FL302 | G-4 | IC607 | M-6 | | | *Q415 | G-3 | *Q809 | A-2 | RV301 | H-5 | | |
| FL303 | G-4 | IC608 | P-5 | | | Q416 | G-2 | *Q810 | A-3 | RV302 | H-6 | | |
| | | IC609 | F-1 | | | Q417 | G-2 | *Q811 | A-3 | RV303 | J-4 | | |
| IC101 | K-3 | IC610 | G-1 | | | Q418 | H-4 | *Q812 | A-4 | RV304 | J-4 | | |
| *IC102 | J-3 | | | | | | | | | | | | |



VA-181 B SIDE
1-666-960-11

ANALOG VIDEO

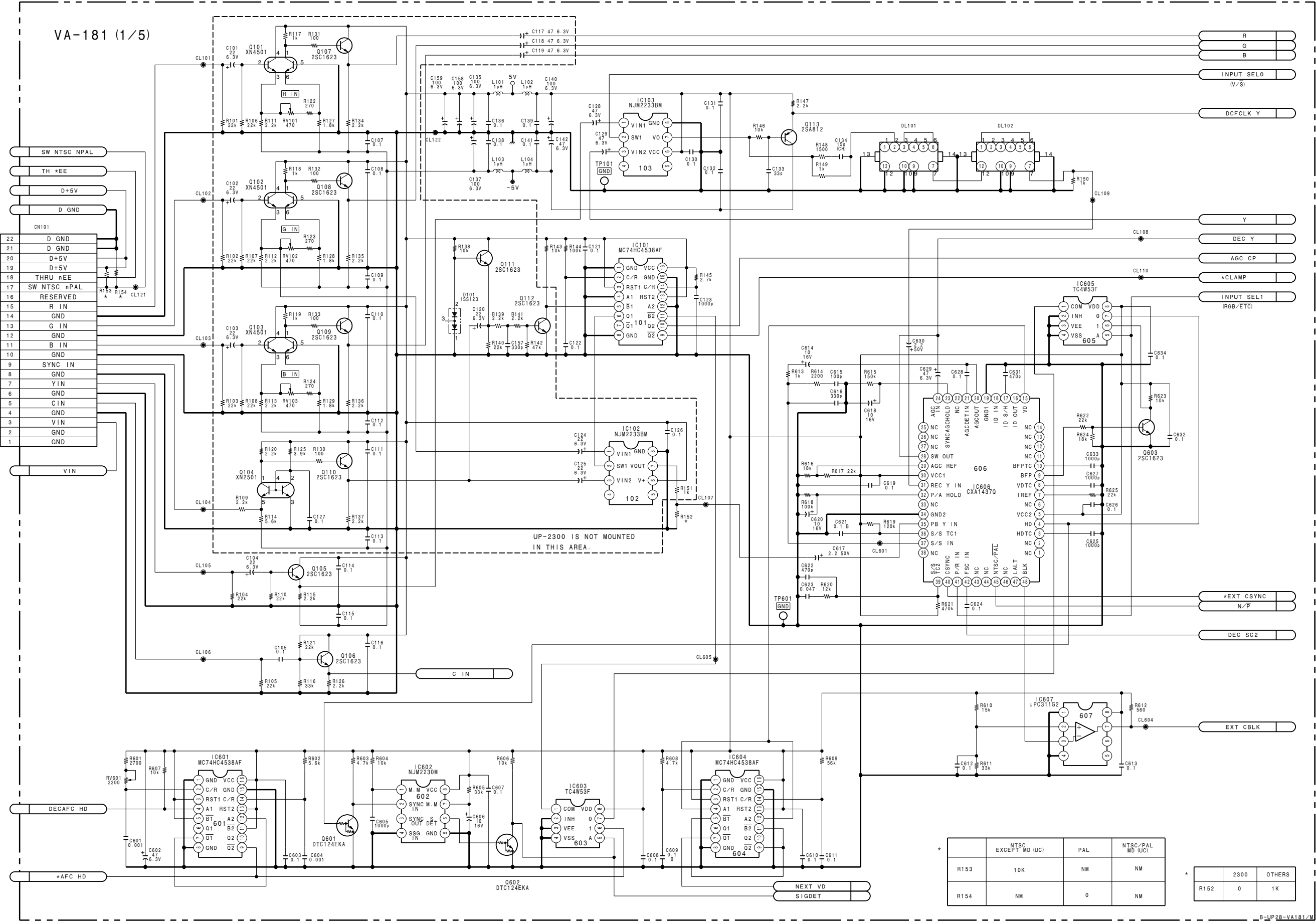
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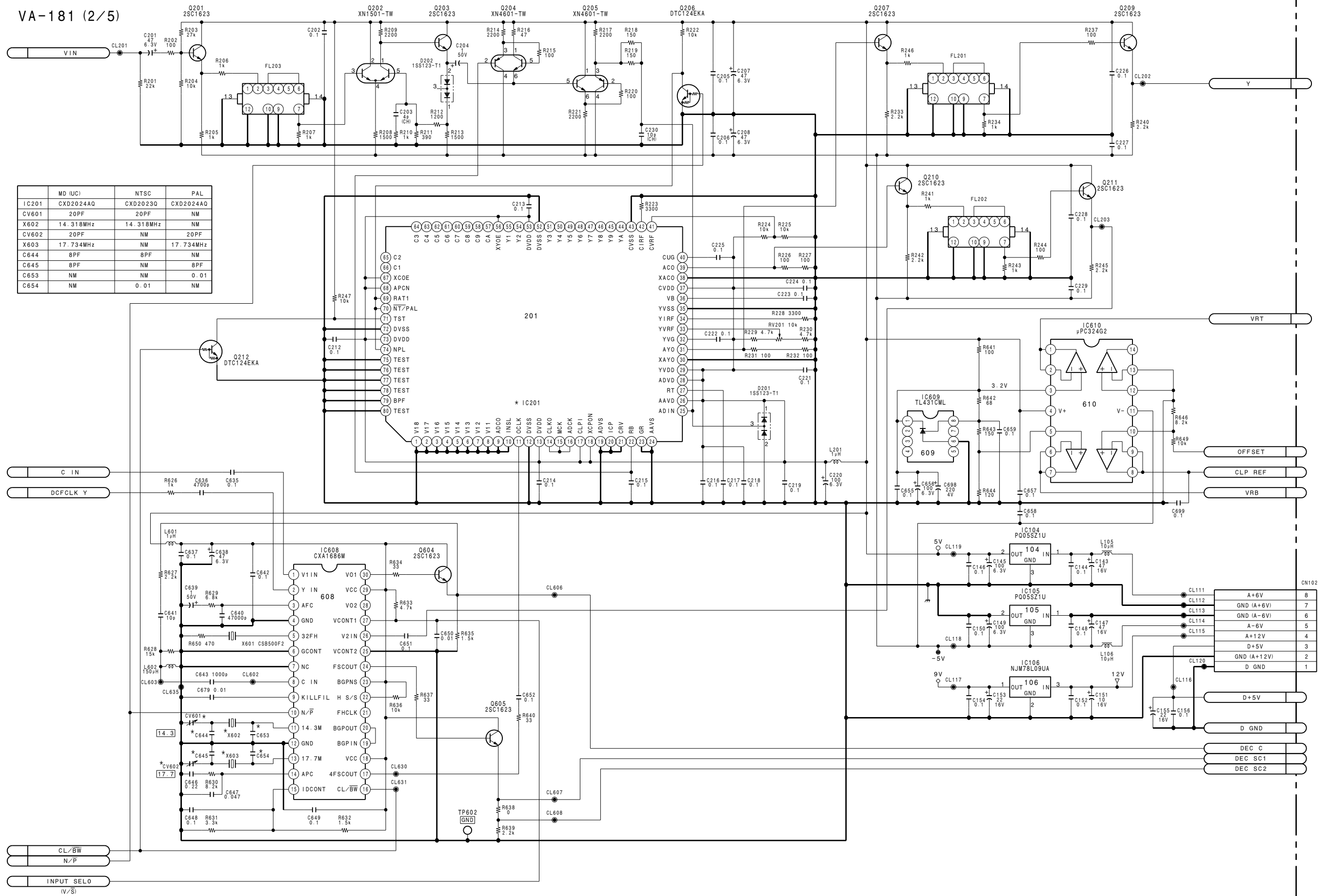
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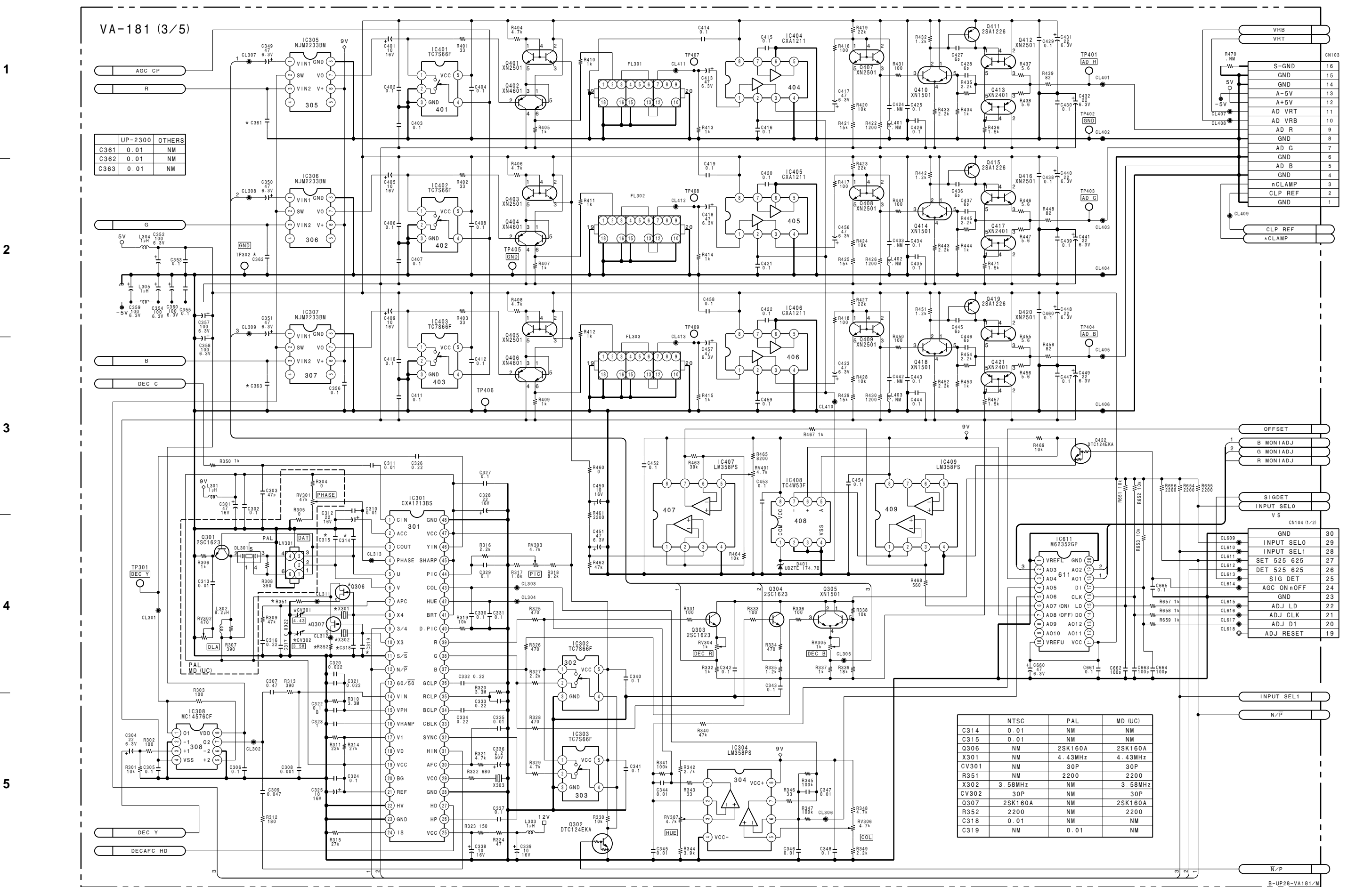


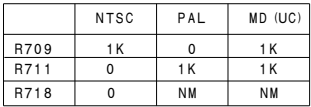
VA-181 (2/5)

| | MD (UC) | NTSC | PAL |
|-------|-----------|-----------|-----------|
| IC201 | CXD2024AQ | CXD2023Q | CXD2024AQ |
| CV601 | 20PF | 20PF | NM |
| X602 | 14.318MHz | 14.318MHz | NM |
| CV602 | 20PF | NM | 20PF |
| X603 | 17.734MHz | NM | 17.734MHz |
| C644 | 8PF | 8PF | NM |
| C645 | 8PF | NM | 8PF |
| C653 | NM | NM | 0.01 |
| C654 | NM | 0.01 | NM |



B-UP28-VA181/M

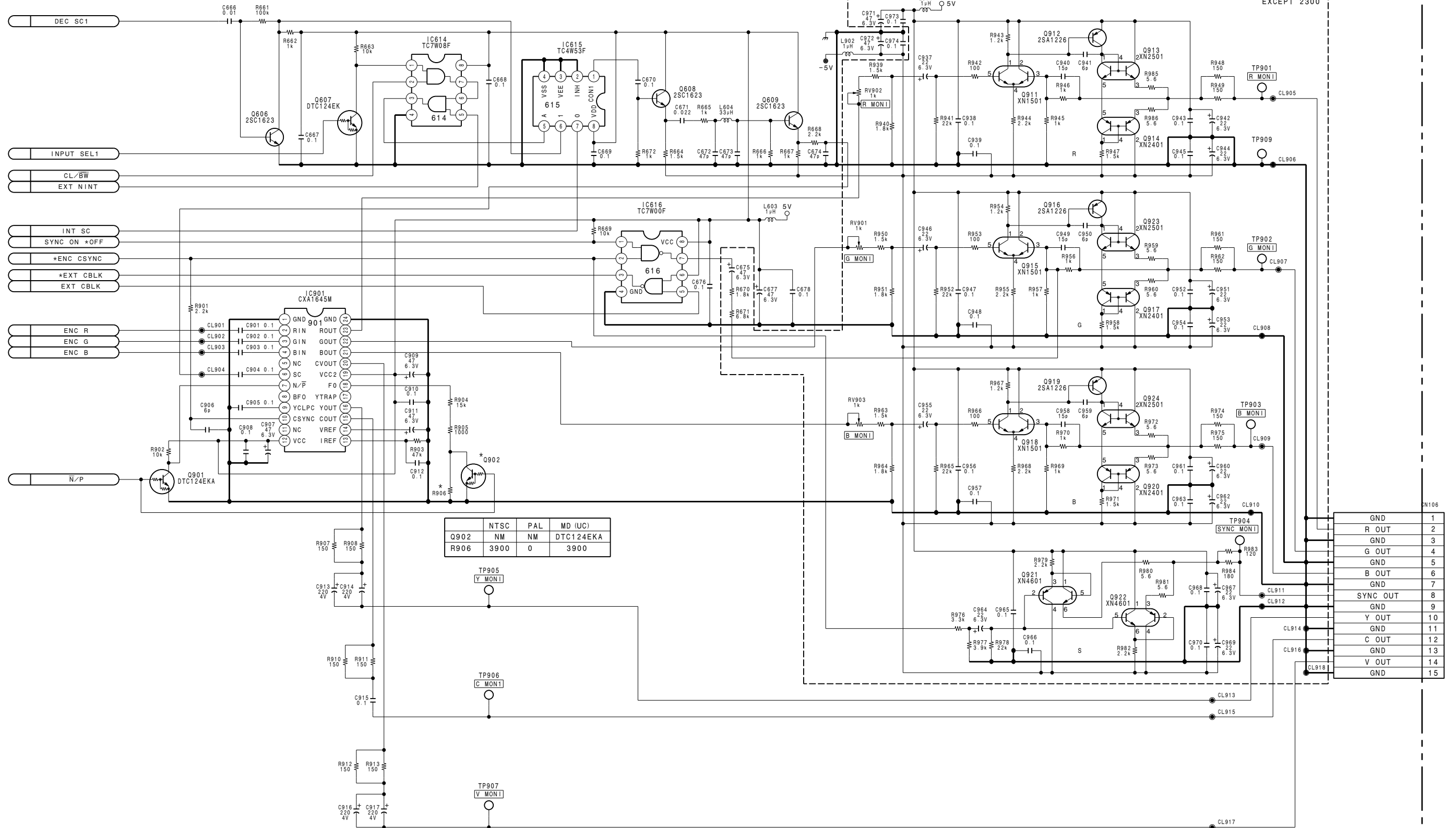




| | | | |
|------|----------------------------|--|----------------------------------|
| | 2900MD (UC) 2950MD (UC) | 2800 (J) 2800P (CE) 2900MD (J) 2800 (UC) 2850P (CE) 2950MD (UC) | 2300 (J) 2300P (CE) 2300 (UC) |
| R847 | 0 | NM | NM |
| R848 | 0 | 0 | NM |

H

VA-181 (5/5)



UP-2800 (J, UC)
UP-2900MD (J, UC)
UP-2950MD (J, UC)
UP-2300 (J, UC)
UP-2800P (CE)
UP-2850P (CE)
UP-2300P (CE)
9-977-296-21

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